

L9 ANSWER 23 OF 23 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1967:85867 CAPLUS

DOCUMENT NUMBER: 66:85867

TITLE: Synthesis and fragmentation of substituted
bicyclo-[3.1.0]-2-hexanones. II.
(.+-.)-iso-trans-Chrysanthemic and
(.+-.)-trans-chrysanthemic acids

AUTHOR(S): Julia, Sylvestre; Julia, Marc; Linstrumelle, Gerard

CORPORATE SOURCE: Ecole Natl. Super. Chim., Paris, Fr.

SOURCE: Bull. Soc. Chim. Fr. (1966), (11), 3499-507

CODEN: BSCFAS

DOCUMENT TYPE: Journal

LANGUAGE: French

GI For diagram(s), see printed CA Issue.

AB cf. preceding abstr. A new acid, (.+-.)-iso-trans-chrysanthemic acid (I) and (.+-.)-trans-chrysanthemic acid (II) were prepd. Dimethyl-vinyl carbinol (86 g.) was added to 47 g. 53% NaH in mineral oil and 1.2 l. benzene, the mixt. refluxed 5 hrs., cooled to -15.degree., and 104 ml. isobutyryl chloride in 50 ml. benzene added at 0 to 4.degree.. The mixt. was left overnight at room temp., added to water, and extd. with ether to give 108 g. III, b10 39.degree., n22.5D 1.4113. III (78 g.) was added dropwise to 24 g. 53% NaH in mineral oil and 160 ml. toluene at 110.degree., the mixt. kept 2 hrs. at 110.degree., cooled, 10 ml. MeOH added, and the mixt. added to ice, washed with ether, and acidified with 2N HCl to give 64 g. IV, b0.6 91.degree., n23.5D 1.4487, amide m. 73.degree. (ether-petroleum ether). IV was also prepd. from 2,2,5-trimethyl-4-hexen-1-al (V) and Ag2O (85% yield) and by sapon. of 2,2,5-trimethyl-4-hexenenitrile (VI) in ethylene glycol (85% yield). V was prepd. by the method of Stork and Dowd (CA 59, 7383a). Addn. of isobutyronitrile (VII) to a mixt. of PhLi and Et2NH in ether and treatment

of this mixt. with isoprene hydrobromide hydrate (VIII) gave 62% VI, b22 86.degree., n18D 1.4351. VI was also prepd. in 96% yield from EtMgBr, Et2NH, VII, and VIII and in 87% yield from VII, isoprene hydrochlor, and NaNH2 in benzene. A soln. of 12 g. Me iodide in 20 ml. ether was added slowly to 1.1 g. Li in 20 ml. ether. To this was added 2.6 g. IV in 10 ml. ether, the mixt. stirred overnight, ice-water added, and extd. with ether to give 2.32 g. IXa (X = Me) (X), b18 84.degree., n20D 1.44-66, also prepd. in 76% yield by treatment of VI with EtMgI in toluene. IV and (COCl)2 in ligroine gave IXa (X = Cl) (XI). XI and CH2N2 gave IXa (X = CHN2) (XII). XII in cyclohexane treated with Cu powder at reflux gave

70%

XIII, b12 75.degree., n22.5D 1.4595, oxime (XIV) m. 90-1.degree. (ether-petroleum ether). XIV (8.61 g.) was added in small portions over 30 min. to 16.8 g. PCl5 in 200 ml. anhyd. ether at -3.degree. (very exothermic reaction). The mixt. was stirred overnight at room temp., filtered, and the solid added to ice and extd. with CHCl3 to give 3% XV, m. 154.degree. (benzene-ligroine). The ether filtrate was washed with cold NaHCO3 soln., water, dried, and concd. to give 77% of a mixt. (b0.5 58-9.degree., n20D 1.4645) of XVI and XVII in approx. 4:1 ratio, and 5% XVIII, b0.7 61.degree., n24D 1.4615. XVIII decompd. to XVI and XVII when subjected to gas chromatog. Similarly, XIV was treated with PCl5 in the presence of pyridine (1.6 ml. pyridine/1.6 g. PCl5), and the ether

residue

chromatographed on alumina to give 73% of a 3:2 mixt. of XVI and XVII (petroleum ether eluate) and 11% XIX, m. 111.degree. (C6H6-ligroine). Treatment of XIV with tosyl chloride in pyridine at 0.degree., then 1 hr.

at room temp. and 1 hr. at 100.degree. gave 48% XVI-XVII and 50% XIX.

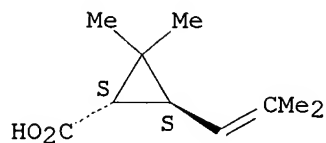
XVI and XVII have the cis configuration. Redn. of XVI and XVII with Adams **catalyst** gave cis-dihydrochrysanthemonitrile. A mixt. of XVI and XVII (310 mg.), 5 mg. p-toluenesulfonic acid (XX), and 5 ml. xylene was refluxed 2 hrs. to give a 9:1 mixt. of XVI and XVII. Sapon. of XVI-XVII (3:2) (24 hrs. reflux with KOH in ethylene glycol) gave 76% of a mixt. (b0.4 97-8.degree.) of I and II. Esterification of this mixt. with CH₂N₂ gave a mixt. contg. 9% iso-cis-, 45% iso-trans-, 8% cis-, and 38% trans-methyl chrysanthemate. Redn. of this mixt. gave cis- and trans-methyl dihydrochrysanthemate. The I-II mixt. (0.6 g.) refluxed 1.5 hrs. in 15 ml. xylene with 5 mg. XX gave 0.54 g. pure II. To 3,3,6-trimethyl-6-hydroxyheptanenitrile (10 g.) in 4 ml. pyridine was added at 0.degree. 7.4 g. methanesulfonyl chloride, the mixt. cooled overnight, added to ice, and extd. with ether to give the methanesulfonate (XXI). XXI (1.25 g. crude) in 3 ml. dimethylformamide was added dropwise to 0.24 g. 50% NaH in mineral oil and 5 ml. dimethylformamide, the mixt. cooled, added to ice, and extd. with ether to give dihydrochrysanthemonitrile (reaction temp., time (hrs.), % yield, and cis/trans ratio given): 20.degree., 5, 86, 60/40; 65.degree., 5, 86, 53/47; 100.degree., 2, 75, 46/54; 125.degree., 1/4, 70, 33% cis, 37% trans, 30% unidentified. Redn. of 95 mg. of I-II mixt. with Adams **catalyst** gave XXIIa (X = H, R = H), p-phenylphenacyl ester m. 100-1.degree. (MeOH). A soln. of 5 g. II in 50 ml. anhyd. ether satd. at 0.degree. with HCl and cooled overnight gave 95% XXIIa (X = Cl, R = H) (XXIII). A mixt. of ethyl and tert-amyl chrysanthemates treated with HCl gave XXIII ethyl ester (XXIV) and XXIII in an amt. corresponding to the amyl ester. Similarly, trans-ethyl chrysanthemate and HCl in ether gave 90% XXIV, b0.8 86.degree., n₂₁D 1.4558, also prepd. from XXIII and diazoethane. A mixt. of 74 ml. 1.5N Na tert-amylate in benzene and 19.6 g. ethyl chrysanthemate (XXV) (60% trans-40% cis) was refluxed 4 hrs., cooled, added to ice and extd. with ether to give 90% trans-esters contg. 3% cis-XXV, however the trans-esters contained 33% trans-XXV and 67% tert-amyl chrysanthemate (XXVI). The trans esters refluxed with alc. KOH gave chrysanthemic acid and pure XXVI, b0.8 85-8.degree., n₂₄D 1.4576. XXV (30 g.) refluxed 72 hrs. in a soln. of 20.7 g. Na in 300 ml. alc. gave 25.5 g. trans-XXV, b0.6 70.degree., n₂₀D 1.4556 (contg. 8% cis-ester). XXIV treated with bases, e.g. tert-BuOK, NaH in dimethylformamide, PhNEt₂, or NaOEt, gave 70% XXV and 30% of the iso-isomer I. XXIV heated in C₆H₄Cl₂ at 180.degree. gave the same results. XXIII heated with K in Et₃COH at 20.degree., then heated 2 hrs. at 90.degree. (Brown, et al., CA 50, 14749e) gave 94% of a mixt. of 85% I and 15% II. I, m. 42-4.degree., amide m. 117-18.degree. (benzene), was sepd. from II by 2 recrystns. from pentane. Similarly, XXIV (4 hrs. at 85.degree.) gave 90% of a mixt. contg. 25% II and 75% I.

IT **705-16-8P 7377-84-6P 13899-97-3P**
13902-29-9P 13902-34-6P 13902-35-7P
14280-93-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 705-16-8 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 (1R,3R)-rel- (9CI) (CA INDEX NAME)

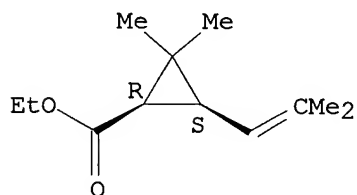
Relative stereochemistry.



RN 7377-84-6 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl ester, (1R,3S)-rel- (9CI) (CA INDEX NAME)

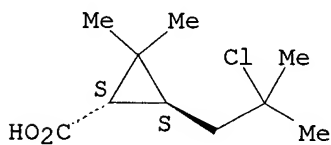
Relative stereochemistry.



RN 13899-97-3 CAPLUS

CN Cyclopropanecarboxylic acid, 3-(2-chloro-2-methylpropyl)-2,2-dimethyl-, trans- (8CI) (CA INDEX NAME)

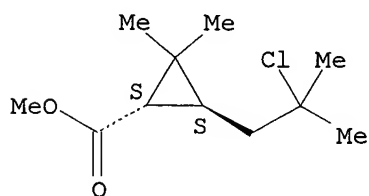
Relative stereochemistry.



RN 13902-29-9 CAPLUS

CN Cyclopropanecarboxylic acid, 3-(2-chloro-2-methylpropyl)-2,2-dimethyl-, methyl ester, trans- (8CI) (CA INDEX NAME)

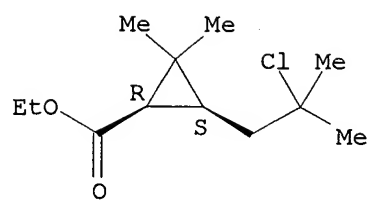
Relative stereochemistry.



RN 13902-34-6 CAPLUS

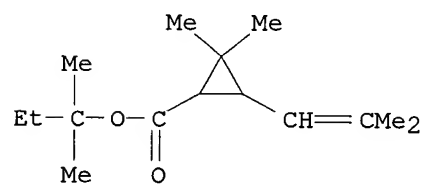
CN Cyclopropanecarboxylic acid, 3-(2-chloro-2-methylpropyl)-2,2-dimethyl-, ethyl ester, cis- (8CI, 9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 13902-35-7 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-,
tert-pentyl ester (8CI) (CA INDEX NAME)



RN 14280-93-4 CAPLUS

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ACCESSION NUMBER: 1968:39156 CAPLUS

DOCUMENT NUMBER: 68:39156

TITLE: Chrysanthemic acid. XVIII. New biologically active acid component related to chrysanthemic acid

AUTHOR(S): Matsui, Masanao; Kitahara, Takeshi

CORPORATE SOURCE: Univ. Tokyo, Tokyo, Japan

SOURCE: Agric. Biol. Chem. (1967), 31(10), 1143-50

CODEN: ABCHA6

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB The rethronyl esters of a series of cyclopropanecarboxylic acids were prepd. and tested for toxicity toward the housefly and mosquito. Thus, the following I (R3 = H) were prepd. (R, R1, R2, b.p./mm., and nD/temp. given): H, H, H, 85.degree. /9, 1.4379/21.degree.; H, Me, H, 95-100.degree. /8, 1.4378/21.degree.; H, H, Me, 100-5.degree. /15

(anilide m. 106.degree.), 1.4400/16.degree. (rethronyl ester n16D 1.5140); Et, H, Me, (II) 95-100.degree. /50, 1.4430/17.degree.; H, Me, Me, 72-5.degree. /2

(anilide m. 176.degree.), -; and Et, Me, Me (III) 75-80.degree. /11, -. II and III were obtained via .beta.-methyl-.alpha.-valerolactone, b6 80-3.degree., n25D 1.4330, and .beta.-.alpha.-dimethyl-.alpha.-valerolactone, b11 98.degree., resp. I (R = H, R1 = R2 = R3 = Me) (IV), m. 121.degree. (rethronyl ester, n17D 1.5091), was prepd. by treatment of Me2C:CM2 with N2CHCO2Et in the presence of CuSO4 **catalyst**, and subsequent alk. hydrolysis of the Et ester. Phys. consts. for similarly prepd. I (R1 = Me) are given in the table. V (b10 120-25.degree.;

anilide m. 117-18.degree., n16D 1.4565; rethronyl ester n16D 1.5000) was prepd. from IV by the Arndt-Eistert reaction. [TABLE OMITTED] Alkylation of Me2C:CHCO2Et with iso-PrBr and NaNH2, and subsequent treatment with

NaOEt, and then sapon. gave Me2C:C(Pr-iso)CO2H, b11 100.degree.; anilide m. 111.degree., n15D 1.4360; rethronyl ester, n22D 1.4931. I (R = H, R1 =

R2 = Me, R3 = CO2Me) (VI) (b0.06 120.degree., n13D 1.4634; rethronyl ester n14D 1.4940) was prepd. by redn. of Et .alpha.-methylsenecioate with LiAlH4; subsequent acetylation gave trimethyllyl acetate (VII), b45 88-92.degree., n14D 1.14365. N2CHCO2Et was added to VII to give I (R =

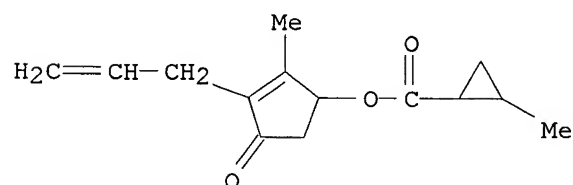
Et, R1 = R2 = Me, R3 = CH2OAc), b10 115-22.degree., n14D 1.4470, which was hydrolyzed with an aq. alk. soln. and, without isolation, oxidized with KMnO4 to I (R = H, R1 = R2 = Me, R3 = CO2H), m. 156.degree..

Esterification with CH2N2 gave I (R = R1 = R2 = Me, R3 = CO2Me), b10 100-2.degree., n19D 1.4500. Subsequent half-hydrolysis with KOH-MeOH yielded I (R = H, R1 = R2 = Me, R3 = CO2Me), b0.06 120.degree., n13D 1.4634; rethronyl ester n14D 1.4940. VIII (Feist's acid, m. 199-200.degree.; rethronyl ester, n14D 1.5120) was prepd. by the method

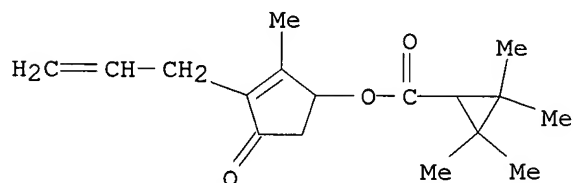
of Goss, et al. (CA 17: 1627). The rethronyl esters were prepd. by converting the acids (except VIII) to the corresponding acyl chlorides, followed by esterification with allethrolone (IX) in the presence of excess C5H5N. VIII was treated with Ac2O to give the anhydride, then mixed with IX to give a half-ester which was esterified with CH2N2. The rethronyl ester of IV had the greatest toxicity. The correlation between

chem. structure and biol. reactivity is discussed.

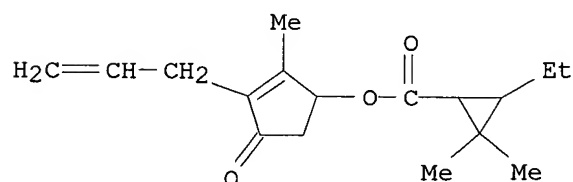
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15589-34-1P 15589-35-2P 15591-18-1P
15641-58-4P 17214-86-7P 17214-87-8P
17219-23-7P 17219-24-8P 17219-29-3P
17219-30-6P 17219-32-8P 17219-33-9P
17219-34-0P 17219-35-1P 17219-37-3P
17219-38-4P 17219-39-5P 17219-40-8P
17219-41-9P 17219-42-0P 17219-44-2P
17219-45-3P 17219-46-4P 18611-84-2P
18611-90-0P 18611-91-1P 18718-20-2P
18718-21-3P 28518-39-0P 28758-81-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 15589-30-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-, 2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl ester (9CI) (CA INDEX NAME)



- RN 15589-31-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl-, 2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl ester (9CI) (CA INDEX NAME)

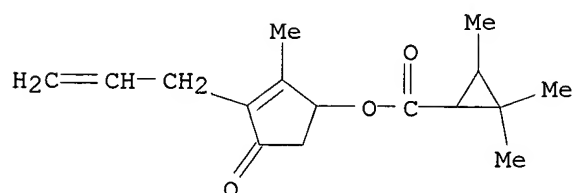


- RN 15589-33-0 CAPLUS
CN Cyclopropanecarboxylic acid, 3-ethyl-2,2-dimethyl-, 2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl ester (9CI) (CA INDEX NAME)



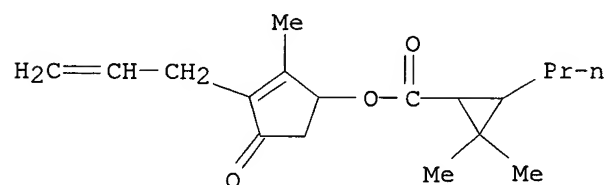
- RN 15589-34-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3-trimethyl-, 2-methyl-4-oxo-3-(2-

propenyl)-2-cyclopenten-1-yl ester (9CI) (CA INDEX NAME)



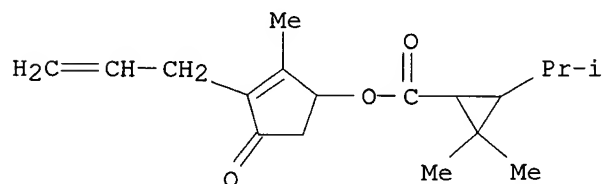
RN 15589-35-2 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-propyl-, 2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl ester (9CI) (CA INDEX NAME)



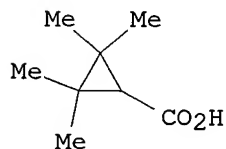
RN 15591-18-1 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(1-methylethyl)-, 2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl ester (9CI) (CA INDEX NAME)



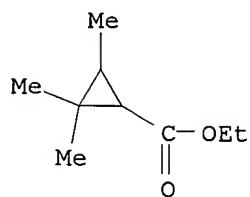
RN 15641-58-4 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl- (6CI, 8CI, 9CI) (CA INDEX NAME)

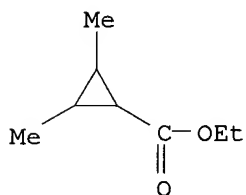


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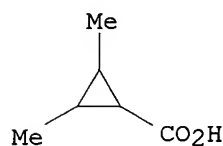
CN Cyclopropanecarboxylic acid, 2,2,3-trimethyl-, ethyl ester (8CI, 9CI) (CA INDEX NAME)



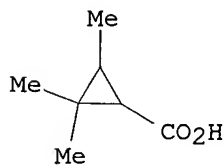
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 (CA INDEX NAME)



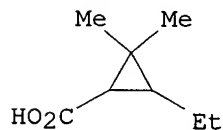
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 CN Cyclopropanecarboxylic acid, 2,3-dimethyl- (8CI) (CA INDEX NAME)



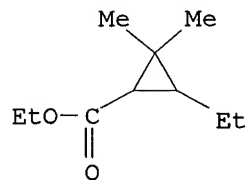
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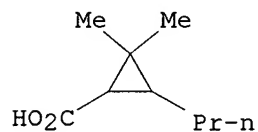
RN 17219-29-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-ethyl-2,2-dimethyl- (8CI) (CA INDEX NAME)



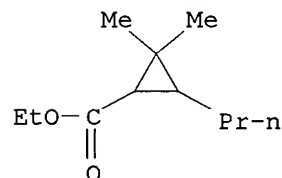
RN 17219-30-6 CAPLUS
CN Cyclopropanecarboxylic acid, 3-ethyl-2,2-dimethyl-, ethyl ester (8CI,
9CI)
(CA INDEX NAME)



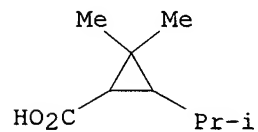
RN 17219-32-8 CAPLUS
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NAME)



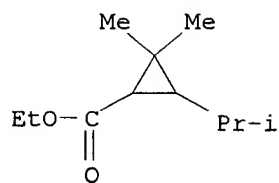
RN 17219-33-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-propyl-, ethyl ester (8CI)
(CA INDEX NAME)



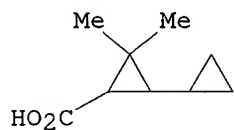
RN 17219-34-0 CAPLUS
CN Cyclopropanecarboxylic acid, 3-isopropyl-2,2-dimethyl- (8CI) (CA INDEX
NAME)



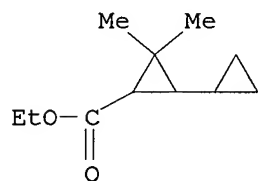
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CN Cyclopropanecarboxylic acid, 3-isopropyl-2,2-dimethyl-, ethyl ester (7CI,
8CI) (CA INDEX NAME)



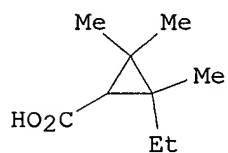
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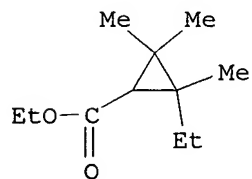
RN 17219-38-4 CAPLUS
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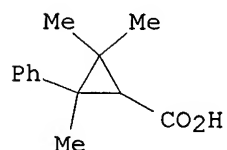
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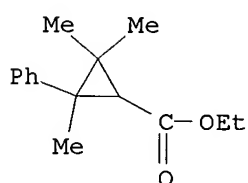
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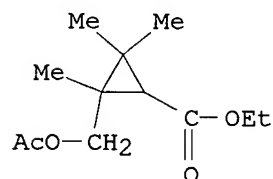
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 CN Cyclopropanecarboxylic acid, 2,2,3-trimethyl-3-phenyl- (8CI, 9CI) (CA INDEX NAME)



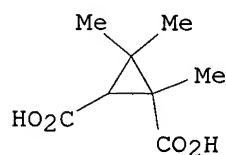
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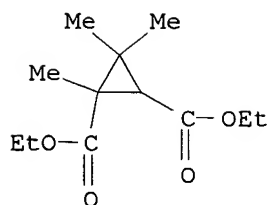
RN 17219-44-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-[(acetyloxy)methyl]-2,3,3-trimethyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 17219-45-3 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, 1,3,3-trimethyl- (8CI, 9CI) (CA INDEX NAME)

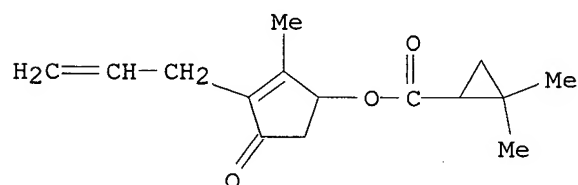


RN 17219-46-4 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, 1,3,3-trimethyl-, diethyl ester (8CI) (CA INDEX NAME)



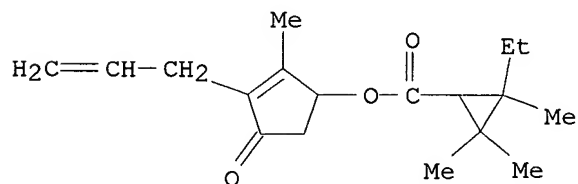
RN 18611-84-2 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-,
2-methyl-4-oxo-3-(2-propenyl)-
2-cyclopenten-1-yl ester (9CI) (CA INDEX NAME)



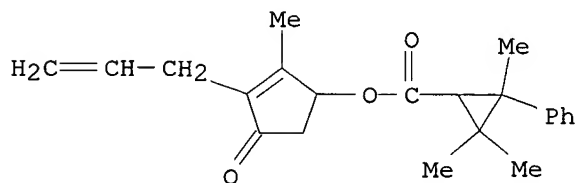
RN 18611-90-0 CAPLUS

CN Cyclopropanecarboxylic acid, 2-ethyl-2,3,3-trimethyl-,
2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl ester (9CI) (CA INDEX
NAME)



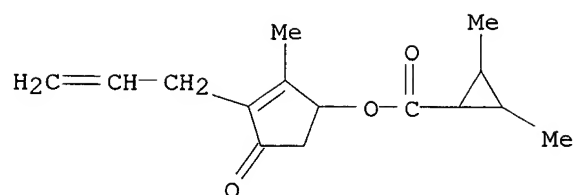
RN 18611-91-1 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2,3-trimethyl-3-phenyl-,
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NAME)

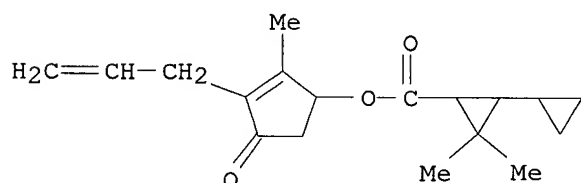


RN 18718-20-2 CAPLUS

CN Cyclopropanecarboxylic acid, 2,3-dimethyl-, ester with
2-allyl-4-hydroxy-3-methyl-2-cyclopenten-1-one (8CI) (CA INDEX NAME)



RN 18718-21-3 CAPLUS
 CN [Bicyclopropyl]-2-carboxylic acid, 3,3-dimethyl-, ester with
 2-allyl-4-hydroxy-3-methyl-2-cyclopenten-1-one (8CI) (CA INDEX NAME)

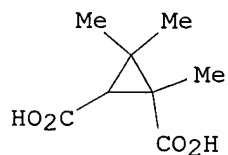


RN 28518-39-0 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, 1,3,3-trimethyl-, monomethyl ester
 (8CI) (CA INDEX NAME)

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CRN 17219-45-3

CMF C8 H12 O4



CM 2

CRN 67-56-1

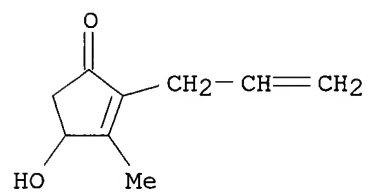
CMF C H4 O

H₃C-OH

RN 28758-81-8 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, 1,3,3-trimethyl-, methyl ester, ester
 with 2-allyl-4-hydroxy-3-methyl-2-cyclopenten-1-one (8CI) (CA INDEX
 NAME)

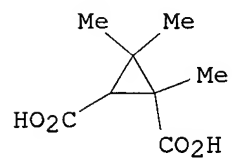
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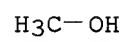
CM 2

CRN 17219-45-3
CMF C8 H12 O4



CM 3

CRN 67-56-1
CMF C H4 O



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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	2	Jan 25	BLAST(R) searching in REGISTRY available in STN on the Web
NEWS	3	Jan 29	FSTA has been reloaded and moves to weekly updates
NEWS	4	Feb 01	DKILIT now produced by FIZ Karlsruhe and has a new update frequency
NEWS	5	Feb 19	Access via Tymnet and SprintNet Eliminated Effective 3/31/02
NEWS	6	Mar 08	Gene Names now available in BIOSIS
NEWS	7	Mar 22	TOXLIT no longer available
NEWS	8	Mar 22	TRCTHERMO no longer available
NEWS	9	Mar 28	US Provisional Priorities searched with P in CA/CAplus and USPATFULL
NEWS	10	Mar 28	LIPINSKI/CALC added for property searching in REGISTRY
NEWS	11	Apr 02	PAPERCHEM no longer available on STN. Use PAPERCHEM2 instead.
NEWS	12	Apr 08	"Ask CAS" for self-help around the clock
NEWS	13	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS	14	Apr 09	ZDB will be removed from STN
NEWS	15	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUIDB
NEWS	16	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	17	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	18	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS	19	Jun 03	New e-mail delivery for search results now available
NEWS	20	Jun 10	MEDLINE Reload
NEWS	21	Jun 10	PCTFULL has been reloaded
NEWS	22	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS EXPRESS			February 1 CURRENT WINDOWS VERSION IS V6.0d, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
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FILE 'HOME' ENTERED AT 08:49:18 ON 18 JUL 2002

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 08:49:26 ON 18 JUL 2002

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STRUCTURE FILE UPDATES: 17 JUL 2002 HIGHEST RN 439210-99-8

DICTIONARY FILE UPDATES: 17 JUL 2002 HIGHEST RN 439210-99-8

TSCA INFORMATION NOW CURRENT THROUGH January 7, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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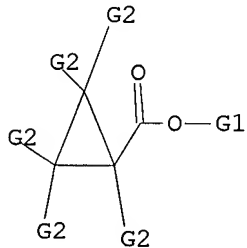
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L1 STRUCTURE UPLOADED

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L1 HAS NO ANSWERS

L1 STR



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G2 H,X,Cb,Ak

Structure attributes must be viewed using STN Express query preparation.

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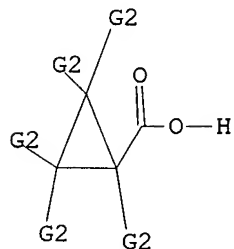
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SEARCH TIME: 00.00.04

L2 26737 SEA SSS FUL L1

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L3 STRUCTURE UPLOADED

=> d
L3 HAS NO ANSWERS
L3 STR



G1 Cb,Ak
G2 H,X,Cb,Ak

Structure attributes must be viewed using STN Express query preparation.

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FULL SCREEN SEARCH COMPLETED - 16561 TO ITERATE

100.0% PROCESSED 16561 ITERATIONS 5138 ANSWERS
SEARCH TIME: 00.00.01

L4 5138 SEA SSS FUL L3

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
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FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 08:50:20 ON 18 JUL 2002
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FILE LAST UPDATED: 17 Jul 2002 (20020717/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

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=> s 15 and 14
      4148 L4
L6      1760 L5 AND L4

=> s 16 and catalyst?
      747371 CATALYST?
L7      139 L6 AND CATALYST?

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L7 ANSWER 1 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2002:158381 CAPLUS
 DOCUMENT NUMBER: 136:218618
 TITLE: Process for producing carbonyl or hydroxy compound
 INVENTOR(S): Hagiya, Koji; Takano, Naoyuki; Kurihara, Akio
 PATENT ASSIGNEE(S): Japan
 SOURCE: U.S. Pat. Appl. Publ., 16 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002025906	A1	20020228	US 2001-925523	20010810
JP 2002201174	A2	20020716	JP 2001-241895	20010809
EP 1188735	A1	20020320	EP 2001-119369	20010810

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
 PT, IE, SI, LT, LV, FI, RO
 JP 2002201173 A2 20020716 JP 2001-326075 20011024
 JP 2002201156 A2 20020716 JP 2001-326076 20011024
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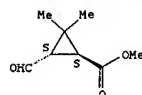
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 JP 2000-244277 A 20000811
 JP 2000-328812 A 20001027
 JP 2000-328816 A 20001027
 JP 2000-337150 A 20001106
 JP 2000-337151 A 20001106
 JP 2000-337152 A 20001106

OTHER SOURCE(S): MARPAT 136:218618
 AB Disclosed is a method for producing at least one compd. selected from a carbonyl compd. and a hydroxy adduct compd. by an oxidative cleavage or addn. reaction of an olefinic double bond of an olefin compd., which contains reacting an olefin compd. with peroxide, using as a catalyst, at least one member selected from (a) tungsten, (b) molybdenum, or (c) a tungsten or molybdenum metal compd. contg. (ia) tungsten or (ib) molybdenum and (ii) an element of Group IIIB, IVB, VB, or VIB excluding oxygen, and a catalyst compn. Thus, 2 g 30% aq. hydrogen peroxide soln. and 97 mg metallic tungsten were agitated at 60.degree. for 0.5 h, a soln. of 3.5 g isophorone and 25.8 g 30% aq. hydrogen peroxide was added dropwise over 20 min, and the mixt. was agitated at 95.degree. for 6 h to give 3,3-dimethyl-5-oxohexanoic acid.

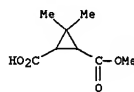
IT 41301-44-4P 76842-27-8P 401910-16-5P
 401910-17-6P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (process for producing carbonyl or hydroxy compd.)
 RN 41301-44-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-formyl-2,2-dimethyl-, methyl ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

L7 ANSWER 1 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

Relative stereochemistry.

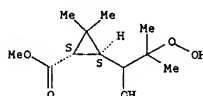


RN 76842-27-8 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, 3,3-dimethyl-, monomethyl ester (9CI)
 (CA INDEX NAME)



RN 401910-16-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2-hydroperoxy-1-hydroxy-2-methylpropyl)-2,2-dimethyl-, methyl ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

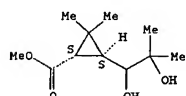
Relative stereochemistry.



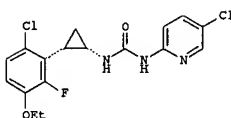
RN 401910-17-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(1,2-dihydroxy-2-methylpropyl)-2,2-dimethyl-, methyl ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L7 ANSWER 1 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



L7 ANSWER 2 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2002:145067 CAPLUS
 DOCUMENT NUMBER: 136:340569
 TITLE: In Search of High Stereocontrol for the Construction of cis-Disubstituted Cyclopropane Compounds. Total Synthesis of a Cyclopropane-Configured Urea-PETT Analog That Is a HIV-1 Reverse Transcriptase Inhibitor
 AUTHOR(S): Hu, Wenhao; Timmons, Daren J.; Doyle, Michael P.
 CORPORATE SOURCE: Department of Chemistry, University of Arizona, Tucson, AZ, 85721, USA
 SOURCE: Organic Letters (2002), 4(6), 901-904
 CODEN: ORLEF7; ISSN: 1523-7050
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

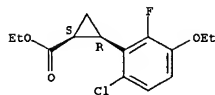


AB A new azetidine-ligated dirhodium(II) catalyst that possesses a 1-menthyl ester attachment provides significant diastereocontrol and high enantiocontrol for the formation of cis-cyclopropane products from reactions of substituted styrenes with diazo esters. The prepn. of urea-PETT analog 1 is described.

IT 417709-89-8P 417709-90-1P 417709-92-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (high stereocontrol for construction of cis-disubstituted cyclopropane compds.)
 RN 417709-89-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(6-chloro-3-ethoxy-2-fluorophenyl)-, ethyl ester, (1S,2R)- (9CI) (CA INDEX NAME)

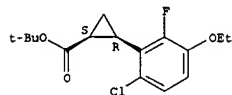
Absolute stereochemistry. Rotation (+).

L7 ANSWER 2 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



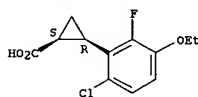
RN 417709-90-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(6-chloro-3-ethoxy-2-fluorophenyl)-, 1,1-dimethylethyl ester, (1S,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 417709-92-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(6-chloro-3-ethoxy-2-fluorophenyl)-, (1S,2R)- (9CI) (CA INDEX NAME)

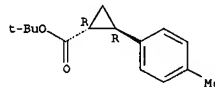
Absolute stereochemistry.



IT 34703-00-9P 105367-35-9P 105367-37-1P
105367-39-3P 417709-79-6P 417709-80-9P
417709-81-0P 417709-82-1P 417709-83-2P
417709-84-3P 417709-85-4P 417709-86-5P
417709-87-6P 417709-88-7P 417709-91-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(high stereocontrol for construction of cis-disubstituted
cyclopropane
compds.)
RN 34703-00-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1S,2R)- (9CI)
(CA INDEX NAME)

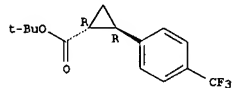
Absolute stereochemistry. Rotation (+).

L7 ANSWER 2 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
Absolute stereochemistry.



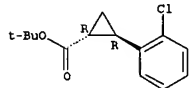
RN 417709-80-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[4-(trifluoromethyl)phenyl]-, 1,1-dimethylethyl ester, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



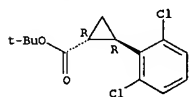
RN 417709-81-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(2-chlorophenyl)-, 1,1-dimethylethyl ester, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



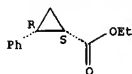
RN 417709-82-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(2,6-dichlorophenyl)-, 1,1-dimethylethyl ester, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



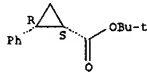
RN 417709-83-2 CAPLUS

L7 ANSWER 2 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



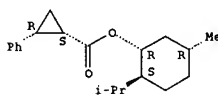
RN 105367-35-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, 1,1-dimethylethyl ester, (1S,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



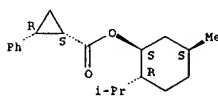
RN 105367-37-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2S,5R)-5-methyl-2-(1-methylethyl)cyclohexyl ester, (1S,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 105367-39-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1S,2R,5S)-5-methyl-2-(1-methylethyl)cyclohexyl ester, (1S,2R)- (9CI) (CA INDEX NAME)

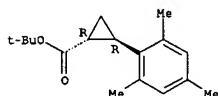
Absolute stereochemistry.



RN 417709-79-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(4-methylphenyl)-, 1,1-dimethylethyl ester, (1R,2R)- (9CI) (CA INDEX NAME)

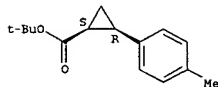
L7 ANSWER 2 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
CN Cyclopropanecarboxylic acid, 2-(2,4,6-trimethylphenyl)-, 1,1-dimethylethyl ester, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



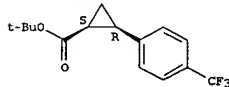
RN 417709-84-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(4-methylphenyl)-, 1,1-dimethylethyl ester, (1S,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 417709-85-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[4-(trifluoromethyl)phenyl]-, 1,1-dimethylethyl ester, (1S,2R)- (9CI) (CA INDEX NAME)

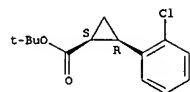
Absolute stereochemistry.



RN 417709-86-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(2-chlorophenyl)-, 1,1-dimethylethyl ester, (1S,2R)- (9CI) (CA INDEX NAME)

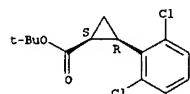
Absolute stereochemistry.

L7 ANSWER 2 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



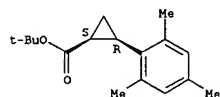
RN 417709-87-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(2,6-dichlorophenyl)-,
1,1-dimethylethyl
ester, (1S,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



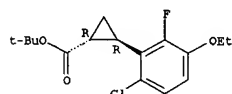
RN 417709-88-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(2,4,6-trimethylphenyl)-,
1,1-dimethylethyl
ester, (1S,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 417709-91-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(6-chloro-3-ethoxy-2-fluorophenyl)-,
1,1-dimethylethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L7 ANSWER 3 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2002:62872 CAPLUS
DOCUMENT NUMBER: 136:27899
TITLE: On the mechanism of the copper-catalyzed
cyclopropanation reaction
AUTHOR(S): Rasmussen, Torben; Jensen, Jakob F.; Ostergaard,
Niels; Tanner, David; Ziegler, Tom; Norrby,
Per-Ola
CORPORATE SOURCE: Department of Medicinal Chemistry, Royal Danish
School
of Pharmacy, Copenhagen, 2100, Den.
SOURCE: Chemistry--A European Journal (2002), 8(1),
177-184
CODEN: CEUJED; ISSN: 0947-6539
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The selectivity-detg. step in enantioselective copper-catalyzed
cyclopropanation with diazo compds. has been studied by exptl. and
computational methods. The addn. of the very reactive metallacarbene
intermediate in an early transition state to the substrate alkene is
concerted but strongly asynchronous, with substantial cationic
character
on one alkene carbon in the neighborhood of the transition state.
Evidence from isotope effects and Hammett studies supports the
nature of
the transition state. Formation of a metallacyclobutane
intermediate by a
[2+2] addn. is kinetically disfavored. Ligand-substrate interactions
influencing the enantio- and diastereoselectivity have been
identified,
and the preferred orientation of the alkene substrate during the
addn. is
suggested.
IT 1759-53-1, Cyclopropanecarboxylic acid
RI: FMU (Formation, unclassified); FRP (Properties); FORM (Formation,
nonpreparative)
(computational study; exptl. and computational study of the
mechanism
of enantioselective copper-catalyzed cyclopropanation of alkenes
with
diazo compds.)
RN 1759-53-1 CAPLUS
CN Cyclopropanecarboxylic acid (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

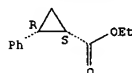


IT 946-38-3P 34716-60-4P 67478-53-9P
70461-59-5P 70461-62-0P 207279-34-3P
207279-35-4P 395676-47-8P 395676-59-2P
406459-08-3P 406459-09-4P 406459-10-7P
406459-11-8P 406459-12-9P
RI: SPN (Synthetic preparation); PREP (Preparation)

L7 ANSWER 2 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR
THIS
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

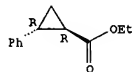
L7 ANSWER 3 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
(exptl. and computational study of the mechanism of
enantioselective
copper-catalyzed cyclopropanation of alkenes with diazo compds.)
RN 946-38-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1R,2S)-rel-
(9CI)
(CA INDEX NAME)

Relative stereochemistry.



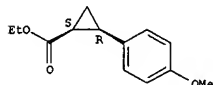
RN 34716-60-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1R,2R)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 67478-53-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(4-methoxyphenyl)-, ethyl ester,
(1R,2S)-rel- (9CI) (CA INDEX NAME)

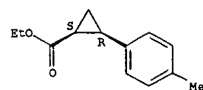
Relative stereochemistry.



RN 70461-59-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(4-methylphenyl)-, ethyl ester,
(1R,2S)-rel- (9CI) (CA INDEX NAME)

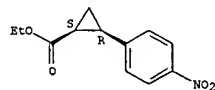
Relative stereochemistry.

L7 ANSWER 3 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



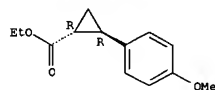
RN 70461-62-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(4-nitrophenyl)-, ethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



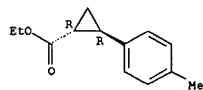
RN 207279-34-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(4-methoxyphenyl)-, ethyl ester, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 207279-35-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(4-methylphenyl)-, ethyl ester, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

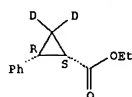


RN 395676-47-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[4-(trifluoromethyl)phenyl]-, ethyl ester, (1R,2R)- (9CI) (CA INDEX NAME)

L7 ANSWER 3 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

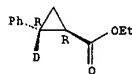
RN 406459-10-7 CAPLUS
CN Cyclopropane-2,2-d2-carboxylic acid, 3-phenyl-, ethyl ester, (1R,2R)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



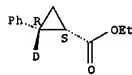
RN 406459-11-8 CAPLUS
CN Cyclopropane-2-d-carboxylic acid, 3-phenyl-, ethyl ester, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 406459-12-9 CAPLUS
CN Cyclopropane-2-d-carboxylic acid, 2-phenyl-, ethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

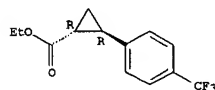
Relative stereochemistry.



REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

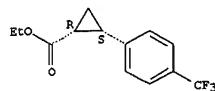
L7 ANSWER 3 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
(1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



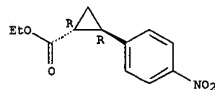
RN 395676-59-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[4-(trifluoromethyl)phenyl]-, ethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



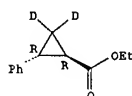
RN 406459-08-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(4-nitrophenyl)-, ethyl ester, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 406459-09-4 CAPLUS
CN Cyclopropane-2,2-d2-carboxylic acid, 3-phenyl-, ethyl ester, (1R,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 4 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2001:886126 CAPLUS
DOCUMENT NUMBER: 136:6298
TITLE: Preparation of Novel triazolo pyrimidine compounds as pharmaceuticals
INVENTOR(S): Larsson, Ulf; Magnusson, Mattias; Musil, Tibor; Palmgren, Andreas
PATENT ASSIGNEE(S): AstraZeneca AB, Swed.
SOURCE: PCT Int. Appl., 29 pp.
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

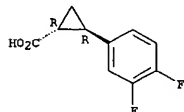
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001092263	A1	20011206	WO 2001-SE1241	20010531
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CZ, CH, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
PRIORITY APPL. INFO.:			GB 2000-13488	A 20000602
			SE 2000-2102	A 20000606
OTHER SOURCE(S):			CASREACT 136:6298	
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The present invention relates to the prepn. of pyrimidine compds., e.g. I, useful as pharmaceutical intermediates, to a process for prepg. the pyrimidine compds., to intermediates used in the process, and to the use of said pyrimidine compds. in the prepn. of pharmaceuticals, e.g. II. Thus, I was prepd. from the coupling of 4,6-dichloro-2-(propylsulfanyl)-5-pyrimidinamine and 2-[(3aR,4S,6R,6aS)-6-amino-2,2-dimethyltetrahydro-3aH-cyclopenta[d][1,3]-dioxol-4-yl]oxy)-1-ethanol L-tartaric acid salt, hydrogenation of the resulting carbocyclic nucleoside I using a heavy

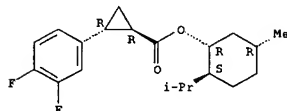
L7 ANSWER 4 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 metal catalyst, coupling with trans-2-(3,4-difluorophenyl)cyclopropanaminium (2R)-2-hydroxy-2-phenylethanoate, and deprotection.
 IT 220352-36-3P 376608-68-3P
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. of novel triazolo pyrimidine compds. as pharmaceuticals)
 RN 220352-36-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(3,4-difluorophenyl)-, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 376608-68-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(3,4-difluorophenyl)-, (1R,2S,5R)-5-methyl-2-(1-methylethyl)cyclohexyl ester, (1R,2R)- (9CI) (CA INDEX NAME)

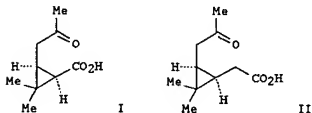
Absolute stereochemistry.



IT 376608-69-4P
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation) (prepn. of novel triazolo pyrimidine compds. as pharmaceuticals)
 RN 376608-69-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(3,4-difluorophenyl)-, (1R,2S,5R)-5-methyl-2-(1-methylethyl)cyclohexyl ester, (1S,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

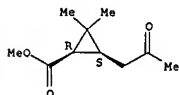
L7 ANSWER 5 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001:423016 CAPLUS
 DOCUMENT NUMBER: 136:216891
 TITLE: Modified oxidation of (+)-3-carene by potassium permanganate
 AUTHOR(S): Tolstikov, G. A.; Galin, F. Z.; Ignatyuk, V. K.; Kashina, Yu. A.; Zelenova, L. M.
 CORPORATE SOURCE: Inst. Organic Chem., Russian Acad. Sci., Ufa, Russia
 SOURCE: Khimiya Prirodnkh Soedinenii (1992), (3,4), 338-340
 PUBLISHER: Izdatel'stvo Fan
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 136:216891
 GI



AB The oxidn. of (+)-3-carene under the conditions of phase-transfer catalysis has been studied. It has been shown that when the reaction is performed in acetic acid the keto acids I and II and (-)-3.alpha.-hydroxycaran-4-one are formed.

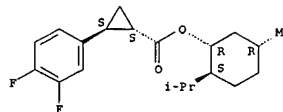
IT 14087-75-3P 70223-33-5P
 RL: SPN (Synthetic preparation); PREP (Preparation) (oxidn. of (+)-3-carene by potassium permanganate under phase-transfer catalysis conditions)
 RN 14087-75-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-oxopropyl)-, methyl ester, (1R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 70223-33-5 CAPLUS

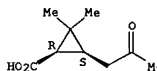
L7 ANSWER 4 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



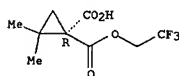
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L7 ANSWER 5 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-oxopropyl)-, (1R,3S)- (9CI) (CA INDEX NAME)

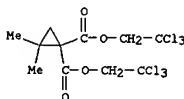
Absolute stereochemistry. Rotation (-).



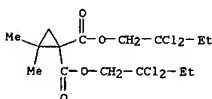
L7 ANSWER 6 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001:222368 CAPLUS
 DOCUMENT NUMBER: 135:61078
 TITLE: Synthesis of
 (1S)-1-amino-2,2-dimethylcyclopropane-1-
 carboxylic acid via PLE mediated hydrolysis of
 bis(2,2,2-trifluoroethyl)
 2,2-dimethylcyclopropane-1,1-
 dicarboxylate
 AUTHOR(S): Salgado, A.; Huybrechts, T.; Eeckhaut, A.; Van
 der Eycken, J.; Szakonyi, Z.; Fulop, F.; Tkachev,
 A.; De Kimpe, N.
 CORPORATE SOURCE: Faculty of Agricultural and Applied Biological
 Sciences, Department of Organic Chemistry, Ghent
 University, Ghent, B-9000, Belg.
 SOURCE: Tetrahedron (2001), 57(14), 2781-2786
 CODEN: TETRA; ISSN: 0040-4020
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 135:61078
 AB A stereoselective synthesis of
 (1S)-1-amino-2,2-dimethylcyclopropane-1-
 carboxylic acid is described. For example, hydrolysis of
 bis(2,2,2-trifluoroethyl) 2,2-dimethylcyclopropane-1,1-dicarboxylate
 with pig liver esterase (PLE) afforded (1R)-2,2-dimethyl-1-(2,2,2-
 trifluoroethoxycarbonyl)-cyclopropane-1-carboxylic acid in high
 enantiomeric excess. This compd. was rearranged to
 2,2,2-trifluoroethyl
 (1S)-2,2-dimethyl-1-[(N-ethoxycarbonyl)amino]-cyclopropane-1-carboxylate
 via a Curtius type reaction with DPPA. Final alk. hydrolysis gave
 (1S)-1-amino-2,2-dimethylcyclopropane-1-carboxylic acid.
 IT 345978-25-8 CAPLUS
 RL: BPN (Biosynthetic preparation); RCT (Reactant); BIOL (Biological
 study); PREP (Preparation); RACT (Reactant or reagent)
 (enantioselective prepn. of (amino)dimethylcyclopropanecarboxylic
 acid with esterase-mediated ester hydrolysis and Curtius rearrangement
 as key steps)
 RN 345978-25-8 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2,2-dimethyl-, mono(2,2,2-
 trifluoroethyl) ester, (1R)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry. Rotation (+).



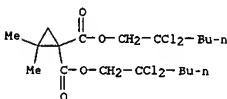
L7 ANSWER 6 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 CN 1,1-Cyclopropanedicarboxylic acid, 2,2-dimethyl-, bis(2,2,2-
 trichloroethyl) ester (9CI) (CA INDEX NAME)



RN 345978-23-6 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2,2-dimethyl-,
 bis(2,2-dichlorobutyl)
 ester (9CI) (CA INDEX NAME)

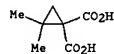


RN 345978-24-7 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2,2-dimethyl-,
 bis(2,2-dichlorohexyl)
 ester (9CI) (CA INDEX NAME)

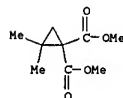


REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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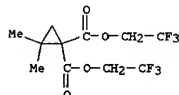
L7 ANSWER 6 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 IT 10147-54-3P 18795-95-4P 345978-21-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
 RACT (Reactant or reagent)
 (enantioselective prepn. of (amino)dimethylcyclopropanecarboxylic
 acid with esterase-mediated ester hydrolysis and Curtius rearrangement
 as key steps)
 RN 10147-54-3 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2,2-dimethyl-, (7CI, 9CI) (CA INDEX
 NAME)



RN 18795-95-4 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2,2-dimethyl-, dimethyl ester (8CI,
 9CI) (CA INDEX NAME)



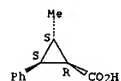
RN 345978-21-4 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2,2-dimethyl-, bis(2,2,2-
 trifluoroethyl) ester (9CI) (CA INDEX NAME)



IT 345978-22-5P 345978-23-6P 345978-24-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (enantioselective prepn. of (amino)dimethylcyclopropanecarboxylic
 acid with esterase-mediated ester hydrolysis and Curtius rearrangement
 as key steps)
 RN 345978-22-5 CAPLUS

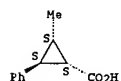
L7 ANSWER 7 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2000:893122 CAPLUS
 DOCUMENT NUMBER: 134:233023
 TITLE: Synthesis and stereostructure-activity
 relationship of three asymmetric center pyrethroids:
 2-methyl-3-phenylcyclopropyl-methyl
 3-phenoxybenzyl
 ether and cyanohydrin ester
 AUTHOR(S): Nishii, Y.; Maruyama, N.; Wakasugi, K.; Tanabe, Y.
 CORPORATE SOURCE: The Physical Chemical Research Institute (RIKEN),
 Wako, Saitama, 351-0198, Japan
 SOURCE: Bioorganic & Medicinal Chemistry (2001), 9(1),
 33-39
 CODEN: BMECEP; ISSN: 0968-0896
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 134:233023
 AB 2-Methyl-3-phenylcyclopropylmethyl 3-phenoxybenzyl ether 2 and
 cyanohydrin
 ester 3, a couple of pyrethroids with three asym. centers, were
 synthesized. Of each of the four diastereomers of 2 and 3, only the
 (1R*,2R*,3R*)-2a and 3a showed significant insecticidal activities.
 Dual
 sets of enantiomers [(1R,2R,3R)-(-)-2a and (1S,2S,3S)-(+)-2a] and
 [(1R,2R,3R)-(-)-3a and (1S,2S,3S)-(+)-3a] were synthesized through the
 asym. cyclopropanation using the Aratani catalyst. Significant
 sephs. of insecticidal activities were obsd. between both the
 enantiomers
 against the tobacco cutworm (Spodoptera litura) and the common
 mosquito
 (Culex pipiens pallens); (1S,2S,3S)-(+)-2a and (+)-3a showed higher
 activities than their antipodes (1R,2R,3R)-(-)-2a and (-)-3a. This
 result
 is the second example of such synthetic pyrethroids with three asym.
 centers.
 IT 27189-94-2P 27189-95-3P 121422-15-9P
 121422-16-0P 135969-86-7P 135969-87-8P
 153665-50-0P 153665-51-1P 330672-10-1P
 330672-11-2P 330672-12-3P 330672-13-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
 RACT (Reactant or reagent)
 (intermediate in synthesis of asym. center pyrethroids)
 RN 27189-94-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-methyl-3-phenyl-, (1R,2S,3S)-rel- (9CI)
 (CA INDEX NAME)
 Relative stereochemistry.

L7 ANSWER 7 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



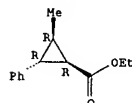
RN 27189-95-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-3-phenyl-, (1R,2R,3R)-rel- (9CI)
(CA INDEX NAME)

Relative stereochemistry.



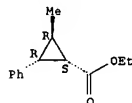
RN 121422-15-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-3-phenyl-, ethyl ester, (1R,2R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 121422-16-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-3-phenyl-, ethyl ester, (1R,2S,3S)-rel- (9CI) (CA INDEX NAME)

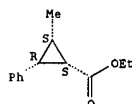
Relative stereochemistry.



RN 135969-86-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-3-phenyl-, ethyl ester,

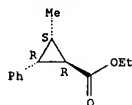
L7 ANSWER 7 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
(1R,2R,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



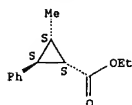
RN 135969-87-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-3-phenyl-, ethyl ester, (1R,2S,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 153665-50-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-3-phenyl-, ethyl ester, (1S,2S,3S)- (9CI) (CA INDEX NAME)

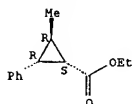
Absolute stereochemistry. Rotation (+).



RN 153665-51-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-3-phenyl-, ethyl ester, (1S,2R,3R)- (9CI) (CA INDEX NAME)

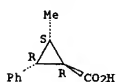
Absolute stereochemistry. Rotation (+).

L7 ANSWER 7 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



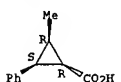
RN 330672-10-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-3-phenyl-, (1R,2S,3R)-rel- (9CI)
(CA INDEX NAME)

Relative stereochemistry.



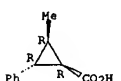
RN 330672-11-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-3-phenyl-, (1R,2R,3S)-rel- (9CI)
(CA INDEX NAME)

Relative stereochemistry.



RN 330672-12-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-3-phenyl-, (1R,2R,3R)- (9CI)
(CA INDEX NAME)

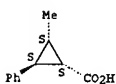
Absolute stereochemistry. Rotation (-).



RN 330672-13-4 CAPLUS

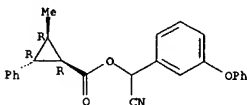
L7 ANSWER 7 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
CN Cyclopropanecarboxylic acid, 2-methyl-3-phenyl-, (1S,2S,3S)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



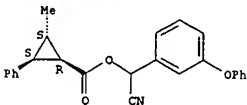
IT 330653-25-3P 330653-26-4P 330653-27-5P
330653-28-6P 330653-34-4P 330653-35-5P
RL: BAC (Biological activity or effector, except adverse); BSU
(Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation);
BIOL (Biological study); PREP (Preparation)
(synthesis of asym. center pyrethroids)
RN 330653-25-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-3-phenyl-, cyano(3-phenoxyphe-
nyl)methyl ester, (1R,2R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



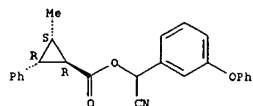
RN 330653-26-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-3-phenyl-, cyano(3-phenoxyphe-
nyl)methyl ester, (1R,2S,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



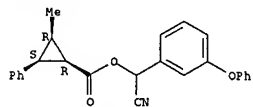
RN 330653-27-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-3-phenyl-, cyano(3-phenoxyphe-
nyl)methyl ester, (1R,2S,3R)-rel- (9CI) (CA INDEX NAME)

L7 ANSWER 7 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
Relative stereochemistry.



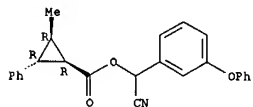
RN 330653-28-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-3-phenyl-, cyano(3-phenoxyphenyl)methyl ester, (1R,2R,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



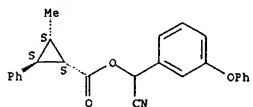
RN 330653-34-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-3-phenyl-, cyano(3-phenoxyphenyl)methyl ester, (1R,2R,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 330653-35-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-3-phenyl-, cyano(3-phenoxyphenyl)methyl ester, (1S,2S,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



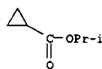
L7 ANSWER 8 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:739250 CAPLUS
DOCUMENT NUMBER: 134:237222
TITLE: Synthesis of cyclopropylamine
AUTHOR(S): Yi, Jianming; Tang, Kuowen; Huang, Liang
CORPORATE SOURCE: Department of Chemical Engineering, Yueyang Normal University, Yueyang, 414000, Peop. Rep. China
SOURCE: Jingxi Huagong (2000), 17(9), 552-555, 557
CODEN: JIHUFJ; ISSN: 1003-5214
PUBLISHER: Jingxi Huagong Bianjibu
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
OTHER SOURCE(S): CASREACT 134:237222
AB Cyclopropylamine was synthesized from .gamma.-butyrolactone and isopropanol by five step reactions. The five step reactions comprise ring-opening esterification of .gamma.-butyrolactone with isopropanol and thionyl chloride to form iso-Pr .gamma.-chlorobutyrate (I); cyclizing I using solid-liq. phase transfer catalysis (PTC) to form iso-Pr cyclopropanecarboxylate (II); hydrolyzing II in the presence of liq./liq. PTC and neutralizing to give cyclopropanecarboxylic acid (III); then acylating III with urea to form cyclopropanecarboxamide (IV) and Hofmann degradn of IV to give cyclopropylamine. Phase transfer catalysis was used in the two key steps of cyclization and hydrolysis, and effects of types and amt. of PTC, reaction temp. and molar ratio of reactants on the yield were discussed. Results of expts. show that the new synthesis method is superior to the those from the literature and is feasible for prodn. with simple processes, mild reaction conditions and cheap materials. The total yield of cyclopropylamine was summed up to 52.6%.
IT 1759-53-1P, Cyclopropanecarboxylic acid 6887-83-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (cyclopropylamine prepn. with phase transfer catalysis)
RN 1759-53-1 CAPLUS
CN Cyclopropanecarboxylic acid (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



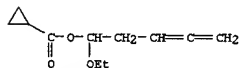
RN 6887-83-8 CAPLUS
CN Cyclopropanecarboxylic acid, 1-methylethyl ester (9CI) (CA INDEX NAME)

L7 ANSWER 7 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L7 ANSWER 8 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



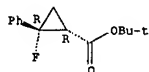
L7 ANSWER 9 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2000:700746 CAPLUS
 DOCUMENT NUMBER: 134:4521
 TITLE: Ruthenium-catalyzed addition of carboxylic acids onto
 functional 1-ethoxy-2-ethynylcyclopropane to yield
 allenes with skeletal rearrangement
 AUTHOR(S): Emme, Ingo; Bruneau, Christian; De Meijere, Armin;
 CORPORATE SOURCE: Dixneuf, Pierre H.
 Catalyse, UMR Laboratoire de Chimie de Coordination et
 6509: CNRS - Universite de Rennes, Rennes,
 F-35042,
 SOURCE: Fr.
 Synlett (2000), (9), 1315-1317
 CODEN: SYNLES; ISSN: 0936-5214
 PUBLISHER: Georg Thieme Verlag
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 134:4521
 AB The selective one-step transformation of trans-1-ethoxy-2-ethynylcyclopropane by a formal 1,4-addn. of carboxylic acids with cyclopropyl-ring opening into allene derivs. (53-96% yield) is achieved with the binuclear ruthenium precatalyst [Ru(O2CH)(CO)2(PPh3)]2. The products combine a reactive allene moiety and a protected aldehyde functionality, and thus offer themselves as versatile building blocks for
 org. synthesis.
 IT 309143-30-8P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 308143-30-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-ethoxy-3,4-pentadienyl ester (9CI) (CA INDEX NAME)



IT 1759-53-1, Cyclopropanecarboxylic acid
 RL: RCT (Reactant); RACT (Reactant or reagent) (ruthenium-catalyzed addn. of carboxylic acids onto ethynylcyclopropane)
 RN 1759-53-1 CAPLUS
 CN Cyclopropanecarboxylic acid (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L7 ANSWER 10 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2000:690434 CAPLUS
 DOCUMENT NUMBER: 134:17149
 TITLE: Asymmetric cyclopropanation of vinyl fluorides: access
 to enantiopure monofluorinated cyclopropane carboxylates
 AUTHOR(S): Meyer, Oliver G. J.; Frohlich, Roland; Haufe, Gunter
 CORPORATE SOURCE: Organisch-Chemisches Institut, Westfalische
 Wilhelms-Universitat Munster, Munster, D-48149,
 Germany
 SOURCE: Synthesis (2000), (10), 1479-1490
 CODEN: SYNTER; ISSN: 0039-7881
 PUBLISHER: Georg Thieme Verlag
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 134:17149
 AB The transition metal catalyzed cyclopropanation with alkyl diazoacetates of aliph. or arom. vinyl fluorides, prepd. from the corresponding alkenes by bromofluorination and subsequent dehydrobromination, provides a smooth access to racemic 1:1 mixts. of cis/trans isomeric monofluorinated cyclopropanecarboxylates. The application of enantiopure bis(oxazoline) ligands and Cu(I) triflate makes the reaction trans-diastereoselective and enantioselective. For example, treatment of .alpha.-fluorostyrene with tert-Bu diazoacetate in the presence of 2 mol% of the catalyst prepd. from (S)-tert-leucine-based 2,2-bis(4-tert-butyl-2-oxazolin-2-yl)propane and CuOTf gave a 4:1 mixt. of trans-2-fluoro-2-phenylcyclopropanecarboxylate (4e) with 93% ee and the corresponding cis-isomer 5e with 89% ee. The abs. configuration of the trans-isomer 4e is (1S,2S) by x-ray structure anal. of a deriv.
 IT 309242-41-9P 309242-42-0P 309242-43-1P 309242-44-2P
 RL: SPN (Synthetic preparation); PREP (Preparation) (asym. cyclopropanation of vinyl fluorides by alkyl diazoacetates catalyzed by copper triflate and oxazoline derivs.)
 RN 309242-41-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-fluoro-2-phenyl-, 1,1-dimethylethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



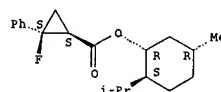
L7 ANSWER 9 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS
 FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

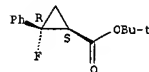
L7 ANSWER 10 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RN 309242-42-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-fluoro-2-phenyl-, (1R,2S,5R)-5-methyl-2-(1-methylethyl)cyclohexyl ester, (1S,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



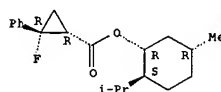
RN 309242-43-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-fluoro-2-phenyl-, 1,1-dimethylethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 309242-44-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-fluoro-2-phenyl-, (1R,2S,5R)-5-methyl-2-(1-methylethyl)cyclohexyl ester, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

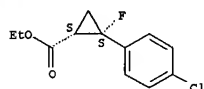


IT 309242-52-2P 309242-53-3P 309242-54-4P 309242-55-5P 309242-56-6P 309242-57-7P 309242-58-8P

RL: SPN (Synthetic preparation); PREP (Preparation) (copper-catalyzed asym. cyclopropanation of vinyl fluorides by alkyl diazoacetates giving)
 RN 309242-52-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(4-chlorophenyl)-2-fluoro-, ethyl ester,

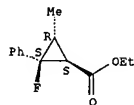
L7 ANSWER 10 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
(1S,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



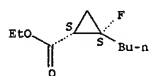
RN 309242-53-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-3-methyl-2-phenyl-, ethyl ester, (1S,2S,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



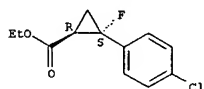
RN 309242-54-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-butyl-2-fluoro-, ethyl ester, (1S,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

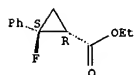


RN 309242-55-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(4-chlorophenyl)-2-fluoro-, ethyl ester, (1R,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

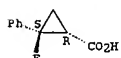


L7 ANSWER 10 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



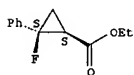
IT 309242-46-4P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and crystal structure of)
RN 309242-46-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-2-phenyl-, (1R,2S)-rel- (9CI)
(CA INDEX NAME)

Relative stereochemistry.



IT 309242-33-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent)
(prepn. and lipase-catalyzed stereoselective hydrolysis of)
RN 309242-33-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-2-phenyl-, ethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



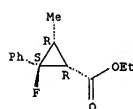
IT 309242-34-0P 309242-35-1P 309242-36-2P
309242-38-4P 309242-39-5P 309242-40-8P
309242-47-5P 309242-48-6P 309242-51-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(Prepn. of)
RN 309242-34-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(4-chlorophenyl)-2-fluoro-, ethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L7 ANSWER 10 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
RN 309242-56-6 CAPLUS

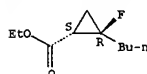
CN Cyclopropanecarboxylic acid, 2-fluoro-3-methyl-2-phenyl-, ethyl ester, (1R,2S,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



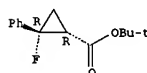
RN 309242-57-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-butyl-2-fluoro-, ethyl ester, (1S,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 309242-58-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-2-phenyl-, 1,1-dimethylethyl ester, (1R,2R)-rel-(+) (9CI) (CA INDEX NAME)

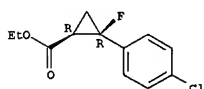
Rotation (+). Absolute stereochemistry unknown.



IT 309242-37-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent)
(prepn. and attempted hydrolysis in presence of lipases)
RN 309242-37-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-2-phenyl-, ethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

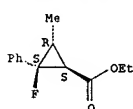
Relative stereochemistry.

L7 ANSWER 10 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



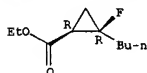
RN 309242-35-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-3-methyl-2-phenyl-, ethyl ester, (1R,2R,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



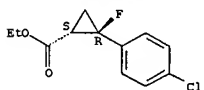
RN 309242-36-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-butyl-2-fluoro-, ethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 309242-38-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(4-chlorophenyl)-2-fluoro-, ethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

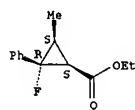
Relative stereochemistry.



RN 309242-39-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-3-methyl-2-phenyl-, ethyl ester,

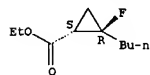
L7 ANSWER 10 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
(1R,2S,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



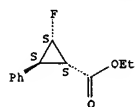
RN 309242-40-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2-butyl-2-fluoro-, ethyl ester,
(1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 309242-47-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-3-phenyl-, ethyl ester,
(1R,2R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 309242-48-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-3-(4-methoxyphenyl)-, ethyl
ester, (1R,2R,3R)-rel- (9CI) (CA INDEX NAME)

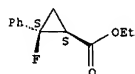
Relative stereochemistry.

L7 ANSWER 10 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



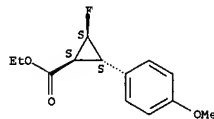
RN 309242-50-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-2-phenyl-, ethyl ester,
(1S,2S)-rel- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



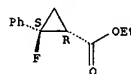
REFERENCE COUNT: 81 THERE ARE 81 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L7 ANSWER 10 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 309242-51-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-2-phenyl-, ethyl ester, (1R,2S)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 309242-45-3P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation);
PREP (Preparation); RACT (Reactant or reagent)
(prepn., crystal structure, and N-Boc-protected
fluorocyclopropylamine)
RN 309242-45-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-2-phenyl-, (1R,2R)-rel- (9CI)
(CA INDEX NAME)

Relative stereochemistry.

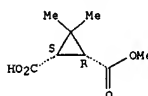


IT 309242-49-7P, (1R,2R)-2-Fluoro-2-phenylcyclopropanecarboxylic acid
309242-50-0P, (1S,2S)-Ethyl 2-fluoro-2-
phenylcyclopropanecarboxylate
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent)
(stereoselective synthesis and conversion to amide)
RN 309242-49-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-2-phenyl-, (1R,2R)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 11 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:675087 CAPLUS
DOCUMENT NUMBER: 134:17278
TITLE: Practical and Highly Enantioselective Ring
Opening of
Cyclic Meso-Anhydrides Mediated by Cinchona
Alkaloids
AUTHOR(S): Bolm, Carsten; Schiffrers, Ingo; Dinter, Christian
L.; Gerlach, Arne
CORPORATE SOURCE: Institut fuer Organische Chemie der RWTH Aachen,
Aachen, D-52056, Germany
SOURCE: 6984-6991 Journal of Organic Chemistry (2000), 65(21),
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:17278
AB The cinchona alkaloid-mediated opening of prochiral cyclic anhydrides
in
the presence of methanol leading to optically active hemiesters is
described. Very structurally diverse anhydrides are converted into
their
corresponding Me monoesters, and either enantiomer can be obtained
with up
to 99% ee by using quinine or quinidine as directing additive. After
the
reaction, the alkaloids can be recovered almost quant. and reused
without
loss of enantioselectivity. Addnl., a catalytic protocol which
permits
the substoichiometric use of quinidine in the presence of easily
accessible pentamethylpiperidine (pempidine) is presented.
IT 81873-49-6P 81873-51-0P 88335-86-8P
88335-87-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective methanolysis of cyclic meso-anhydrides mediated by
quinine or quinidine)
RN 81873-49-6 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 3,3-dimethyl-, monomethyl ester,
(1R,2S)- (9CI) (CA INDEX NAME)

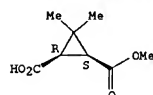
Absolute stereochemistry. Rotation (+).



RN 81873-51-0 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 3,3-dimethyl-, monomethyl ester,
(1S,2R)- (9CI) (CA INDEX NAME)

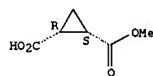
L7 ANSWER 11 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

Absolute stereochemistry. Rotation (-).



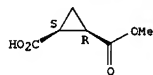
RN 88335-86-8 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, monomethyl ester, (1S,2R)- (SCI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 88335-87-9 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, monomethyl ester, (1R,2S)- (SCI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 97 THERE ARE 97 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L7 ANSWER 12 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:663032 CAPLUS
DOCUMENT NUMBER: 133:362462
TITLE: Rhodium(II)-Catalyzed Cyclization of Amido Diazo Carbonyl Compounds
AUTHOR(S): Padwa, Albert; Hasegawa, Tadashi; Liu, Bing; Zhang, Zhijia
CORPORATE SOURCE: Department of Chemistry, Emory University, Atlanta, GA, 30322, USA
SOURCE: Journal of Organic Chemistry (2000), 65(21), 7124-7133
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 133:362462
AB A series of acyclic diazo keto amides were prepd. from N-benzoyl-N-alkylaminopropanoic acids and were treated with a catalytic amt. of rhodium(II) acetate. The resultant carbenoids underwent facile cyclization onto the neighboring amide carbonyl oxygen atom to generate seven-membered carbonyl ylide dipoles. Subsequent collapse of the dipoles with charge dissipation produce bicyclic epoxides which undergo further reorganization to give substituted 5-hydroxydihydropyridones in good yield. Depending on the nature of the substituent groups, it was possible to trap some of the initially formed carbonyl ylide dipoles with a reactive dipolarophile such as DMAD. In other cases, cyclization of the dipole to the epoxide is much faster than bimol. trapping. A related cyclization/rearrangement sequence occurred when diazo keto amides derived from the cyclic pyrrolidone and piperidone ring systems were subjected to catalytic quantities of Rh(II) acetate. With these systems, exclusive O-cyclization of the amido group onto the carbenoid center occurs to generate a seven-ring carbonyl ylide dipole. Starting materials are easily prepd., and the cascade sequence proceeds in good yield and does not require special precautions. The overall procedure represents an efficient one-pot approach toward the synthesis of various indolizidine and quinolizidine ring systems.
IT 113020-21-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(rhodium(II)-catalyzed cyclization of amido diazo carbonyl compds.)
RN 113020-21-6 CAPLUS
CN 1,1-Cyclopropanedicarboxylic acid, monomethyl ester (SCI) (CA INDEX NAME)

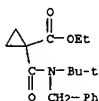
L7 ANSWER 12 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



IT 307964-74-5P 307964-75-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent)
(rhodium(II)-catalyzed cyclization of amido diazo carbonyl compds.)
RN 307964-74-5 CAPLUS
CN Cyclopropanedicarboxylic acid, 1-[[[(1,1-dimethylethyl)(phenylmethyl)amino]carbonyl]- (SCI) (CA INDEX NAME)



RN 307964-75-6 CAPLUS
CN Cyclopropanedicarboxylic acid, 1-[[[(1,1-dimethylethyl)(phenylmethyl)amino]carbonyl]-, ethyl ester (SCI) (CA INDEX NAME)



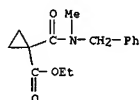
REFERENCE COUNT: 90 THERE ARE 90 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L7 ANSWER 13 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:556471 CAPLUS
DOCUMENT NUMBER: 133:281391
TITLE: Rhodium(II)-Catalyzed Equilibration of Push-Pull Carbonyl and Ammonium Ylides. A Computationally Based Understanding of the Reaction Pathway
AUTHOR(S): Padwa, Albert; Snyder, James P.; Curtis, Erin A.; Sheehan, Scott M.; Worsencroft, Kimberly J.; Kappe, C. Oliver
CORPORATE SOURCE: Department of Chemistry, Emory University, Atlanta, GA, 30322, USA
SOURCE: Journal of the American Chemical Society (2000), 122(34), 8155-8167
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB .alpha.-Diazo esters contg. an amido group in the .gamma.-position have been found to undergo a rhodium(II)-catalyzed transformation, producing five-membered ammonium or carbonyl ylides depending on the reaction conditions used. In the absence of an external dipolarophile, ammonium ylides are the exclusive products formed. In most cases these ylides cannot be isolated as they readily undergo sigmatropic rearrangement or fragmentation reactions. In the presence of typical dipolarophiles such as DMAD or N-phenylmaleimide, cycloaddn. products derived from cyclic carbonyl ylide dipoles are formed as the major products. The rhodium carbenoid intermediate generated in these reactions can either attack the lone pair of electrons on the amide nitrogen (ammonium ylide formation) or the lone pair of electrons on the carbonyl oxygen (carbonyl ylide formation). The exptl. observations reflect a catalyst-promoted system of equil. with a clear-cut thermodyn. bias. To examine the underlying mechanism in detail, d. functional theory (DFT) calcs. were performed on all plausible intermediates, including the full dirhodium tetracarboxylate functionality. A semiquant. energy manifold is developed that rationalizes the empirical observations and provides a detailed picture of the role of the dirhodium(II) catalyst.
IT 3697-66-3, 1,1-Cyclopropanedicarboxylic acid, monoethyl ester
RL: PEP (Physical, engineering or chemical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
(study on the reaction pathway of the rhodium(II)-catalyzed equilibration of push-pull carbonyl and ammonium ylides)
RN 3697-66-3 CAPLUS
CN 1,1-Cyclopropanedicarboxylic acid, monoethyl ester (SCI, 9CI) (CA INDEX NAME)

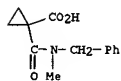
L7 ANSWER 13 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
NAME]



IT 299204-32-3P 299204-33-4P 299204-36-7P
299204-37-8P 299204-41-4P 299204-42-5P
RL: PEP (Physical, engineering or chemical process); RCT (Reactant);
SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT
(Reactant or reagent)
(study on the reaction pathway of the rhodium(II)-catalyzed
equilibration of push-pull carbonyl and ammonium ylides)
RN 299204-32-3 CAPLUS
CN Cyclopropanecarboxylic acid, 1-[(methyl(phenylmethyl)amino)carbonyl]-,
ethyl ester (9CI) (CA INDEX NAME)



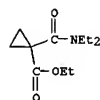
RN 299204-33-4 CAPLUS
CN Cyclopropanecarboxylic acid, 1-[(methyl(phenylmethyl)amino)carbonyl]-
(9CI) (CA INDEX NAME)



RN 299204-36-7 CAPLUS
CN Cyclopropanecarboxylic acid, 1-[(diethylamino)carbonyl]-, ethyl ester
(9CI) (CA INDEX NAME)

L7 ANSWER 13 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
FORMAT

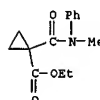
L7 ANSWER 13 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 299204-37-8 CAPLUS
CN Cyclopropanecarboxylic acid, 1-[(diethylamino)carbonyl]- (9CI) (CA
INDEX NAME)



RN 299204-41-4 CAPLUS
CN Cyclopropanecarboxylic acid, 1-[(methylphenylamino)carbonyl]-, ethyl
ester (9CI) (CA INDEX NAME)

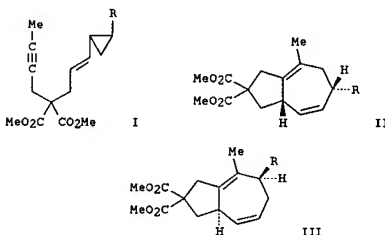


RN 299204-42-5 CAPLUS
CN Cyclopropanecarboxylic acid, 1-[(methylphenylamino)carbonyl]- (9CI)
(CA INDEX NAME)



REFERENCE COUNT: 108 THERE ARE 108 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE
RE

L7 ANSWER 14 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1999:770730 CAPLUS
DOCUMENT NUMBER: 132:122316
TITLE: Transition metal-catalyzed [5+2]-cycloadditions of
2-substituted-1-vinylcyclopropanes: Catalyst
control and reversal of regioselectivity
AUTHOR(S): Wender, Paul A.; Dyckman, Alaric J.
CORPORATE SOURCE: Department of Chemistry, Stanford University,
Stanford, CA, 94305-5080, USA
SOURCE: Organic Letters (1999), 1(13), 2089-2092
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 132:122316
GI

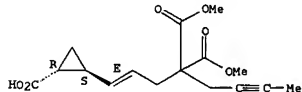


AB Studies on the stereo- and regioselectivity of rhodium(I)-catalyzed
[5+2]-cycloaddns. of 2-substituted-1-vinylcyclopropanes, e.g. I (R =
CH2OH, CH2OAc, CH2OSiMe2CMe3, CHO, CO2H, CO2Me) were described. The
relative stereochem. of vicinal cyclopropane substituents is
conserved in these reactions, translating into distinct 1,4- or
1,5-stereorelationships in the cycloadducts. Exceptional regioselectivity in cyclopropane
bond cleavage and even reversal of cleavage selectivity can be obtained
through judicious selection of substituents and/or catalyst. Thus,
cycloaddn. of I (R = CO2Me) in toluene contg. Rh(PPh3)3(O2CCF3) at
110.degree. for one hour gave 81% of a 20:1 mixt. of
hexahydroazulenetricarboxylates II and III whereas cycloaddn. of I (R
= CO2Me) in the presence of [Rh(CO)2Cl]2 gave 93% of a 1:11 mixt. of II
and III.

L7 ANSWER 14 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
IT 256463-07-7P 256463-08-8P 256463-20-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

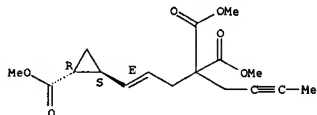
RACT (Reactant or reagent)
(prepn. of methylhexahydroazulenecarboxylates by rhodium
complex-catalyzed regioselective/stereoselective cycloaddns. of
{(methoxycarbonyl)octenynyl}cyclopropanes)
RN 256463-07-7 CAPLUS
CN Propanedioic acid, 2-butyryl[(2E)-3-[(1R,2S)-2-carboxycyclopropyl]-2-propenyl]-, 1,3-dimethyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



RN 256463-08-8 CAPLUS
CN Propanedioic acid, 2-butyryl[(2E)-3-[(1R,2S)-2-(methoxycarbonyl)cyclopropyl]-2-propenyl]-, dimethyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

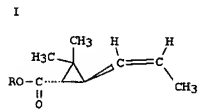
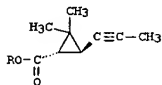


RN 256463-20-4 CAPLUS
CN Propanedioic acid, 2-butyryl[(2E)-3-[(1R,2R)-2-(methoxycarbonyl)cyclopropyl]-2-propenyl]-, dimethyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

L7 ANSWER 15 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 131:310403 CAPLUS
DOCUMENT NUMBER: 131:310403
TITLE: Preparation of trans-3-(1-propynyl)-2,2-dimethylcyclopropanecarboxylate compounds
INVENTOR(S): Mori, Tatsuya; Matsuo, Noritada
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

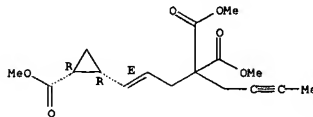
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 955287	A1	19991110	EP 1999-303549	19990506
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,				
PT,	IE, SI, LT, LV, FI, RO			
US 6072074	A	20000606	US 1999-304838	19990505
CN 1235152	A	19991117	CN 1999-107522	19990506
JP 2000026368	A2	20000125	JP 1999-125740	19990506
PRIORITY APPLN. INFO.:			JP 1998-126025	19980508
OTHER SOURCE(S):		CASREACT 131:310403; MARPAT 131:310403		
GI				



AB Trans-3-(1-propynyl)-2,2-dimethylcyclopropanecarboxylate compds. (I;
R = H, Cl-4 alkyl) (e.g., R = Et), which are useful agrochem.
intermediates,
are readily prepd. in high yield and selectivity by the intramol.
cyclocondensation of RO2CH2C(CH3)2CHClCH2CCl2CH3 with base (e.g.,
NaOEt),
and I can be stereoselectively hydrogenated with the Lindlar
catalyst to the corresponding trans-3-(2)-(1-propenyl)-2,2-
dimethylcyclopropanecarboxylate compds. (II; e.g., R = Et).
IT 247920-98-5P 247920-99-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

RACT

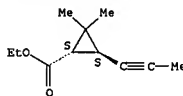
L7 ANSWER 14 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

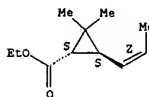
L7 ANSWER 15 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
(Reactant or reagent)
(prepn. of trans-3-(1-propynyl)-2,2-dimethylcyclopropanecarboxylate
compds. and their derivs.)
RN 247920-98-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(1-propynyl)-, ethyl
ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



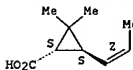
RN 247920-99-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(1Z)-1-propenyl-, ethyl
ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



IT 247921-00-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of trans-3-(1-propynyl)-2,2-dimethylcyclopropanecarboxylate
compds. and their derivs.)
RN 247921-00-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(1Z)-1-propenyl-,
(1R,3R)-rel- (9CI) (CA INDEX NAME)

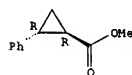
Relative stereochemistry.
Double bond geometry as shown.



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR
THIS

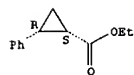
L7 ANSWER 15 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L7 ANSWER 16 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1999:593598 CAPLUS
DOCUMENT NUMBER: 131:336754
TITLE: Catalytic asymmetric cyclopropanation using a new
chiral .beta.-diketone Cu(II) complex as a
catalyst
AUTHOR(S): Xu, Yu; Wang, Zhong Yi; You, Tian Pa
CORPORATE SOURCE: Department of Chemistry, University of Science and
Technology of China, Hefei, 230026, Peop. Rep.
China
SOURCE: Chinese Chemical Letters (1998), 9(7), 607-608
CODEN: CCLEET; ISSN: 1001-8417
PUBLISHER: Springer-Verlag Singapore Pte. Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 131:336754
AB A new chiral .beta.-diketone Cu(II) catalyst was synthesized and
used for the asym. cyclopropanation of styrene with diazo esters. A
high optical yield (.apprx.90%) was achieved. The effect of the structure
of substrate on the enantioselectivity was studied. Both chem. yield and
optical yield were reduced when the steric bulky substrate was
employed.
IT 5861-31-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent)
(asym. cyclopropanation catalyzed by chiral .beta.-diketone Cu(II)
complex)
RN 5861-31-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, methyl ester, (1R,2R)-rel-
(9CI)
(CA INDEX NAME)
Relative stereochemistry.

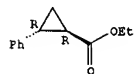


IT 946-38-3P 946-39-4P 5682-61-1P
23020-15-7P 249580-35-6P 249580-36-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(asym. cyclopropanation catalyzed by chiral .beta.-diketone Cu(II)
complex)
RN 946-38-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1R,2S)-rel-
(9CI)
(CA INDEX NAME)
Relative stereochemistry.

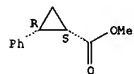
L7 ANSWER 16 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 946-39-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1R,2R)-rel-
(9CI)
(CA INDEX NAME)
Relative stereochemistry.



RN 5682-61-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, methyl ester, (1R,2S)-rel-
(9CI)
(CA INDEX NAME)
Relative stereochemistry.

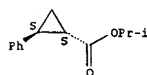


RN 23020-15-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1S,2S)- (9CI) (CA INDEX
NAME)
Absolute stereochemistry. Rotation (+).

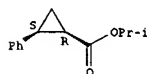


RN 249580-35-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, 1-methylethyl ester,
(1R,2R)-rel-
(9CI) (CA INDEX NAME)
Relative stereochemistry.

L7 ANSWER 16 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 249580-36-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, 1-methylethyl ester,
(1R,2S)-rel-
(9CI) (CA INDEX NAME)
Relative stereochemistry.



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR
THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L7 ANSWER 17 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1999:162346 CAPLUS
 DOCUMENT NUMBER: 130:224602
 TITLE: Process and catalysts for the preparation of lower alkyl cyclopropanecarboxylate esters
 INVENTOR(S): Kaufhold, Manfred; Feld, Marcel
 PATENT ASSIGNEE(S): Huels A.-G., Germany
 SOURCE: Ger. Offen., 4 pp.
 CODEN: GWXXRX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19738072	A1	19990304	DE 1997-19738072	19970901
EP 900777	A1	19990310	EP 1998-113771	19980723
EP 900777	B1	20020410		

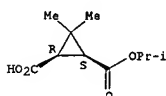
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
 PT, IE, SI, LT, LV, FI, RO
 JP 11152250 A2 19990608 JP 1998-245037 19980831
 PRIORITY APPLN. INFO.: DE 1997-19738072 A 19970901
 AB Lower alkyl cyclopropanecarboxylate esters (e.g., Et cyclopropanecarboxylate) are prepd. in high yield and selectivity by the esterification of a stoichiometric excess of cyclopropanecarboxylic acid to a lower alkanol in an esterification zone at 100-200.degree. in the presence of an acid esterification catalyst (e.g., alkylbenzenesulfonic acids) with distn. of the reaction water and small quantity of alc. from the reaction zone.
 IT 1759-53-1DP, Cyclopropanecarboxylic acid, lower alkyl esters 2868-37-3P, Methyl cyclopropanecarboxylate 4606-07-9P, Ethyl cyclopropanecarboxylate 60128-01-0P
 RL: IMF (Industrial manufacture); PREP (Preparation) (process and catalysts for the prepn. of lower alkyl cyclopropanecarboxylate esters)
 RN 1759-53-1 CAPLUS
 CN Cyclopropanecarboxylic acid (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



RN 2868-37-3 CAPLUS
 CN Cyclopropanecarboxylic acid, methyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L7 ANSWER 18 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1998:74169 CAPLUS
 DOCUMENT NUMBER: 128:127594
 TITLE: Highly Enantioselective Ring Opening of Cyclic Meso Anhydrides to Isopropyl Hemiesters with
 Ti-TADDOLates:
 AUTHOR(S): An Alternative to Hydrolytic Enzymes?
 CORPORATE SOURCE: Jaeschke, Georg; Seebach, Dieter
 Eidgenossische Laboratorium fuer Organische Chemie,
 Hochschule ETH-Zentrum, Zurich, CH-8092, Switz.
 SOURCE: Journal of Organic Chemistry (1998), 63(4),
 1190-1197
 CODEN: JOCEAH; ISSN: 0022-3263
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The Lewis acid mediated transfer of an alkoxide ligand from the chiral ligand sphere of Ti-TADDOLate (I) to cyclic meso anhydrides to afford the corresponding hemiesters is described. By using this method a variety of structurally different anhydrides can be converted to iso-Pr hemiesters with high enantioselectivities (enantiomer ratios up to 99:1). We have also investigated Lewis acidic titanium complexes which differ from I in the chiral ligand or the alkoxide ligand that is transferred. Finally, a catalytic version, which allows the substoichiometric use of Ti-TADDOLate in the presence of stoichiometric amts. of Al(Oi-Pr)3, is presented.
 IT 201815-26-1P
 RL: SPN (Synthetic preparation); PREP (Preparation) (asym. ring opening of meso anhydrides to iso-Pr hemiesters with Ti-TADDOLates)
 RN 201815-26-1 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, 3,3-dimethyl-, mono(1-methylethyl) ester, cis-(+)- (9CI) (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.



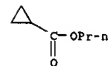
L7 ANSWER 17 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 4606-07-9 CAPLUS
 CN Cyclopropanecarboxylic acid, ethyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



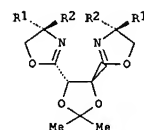
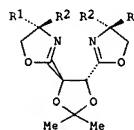
RN 60128-01-0 CAPLUS
 CN Cyclopropanecarboxylic acid, propyl ester (9CI) (CA INDEX NAME)



IT 1759-53-1, Cyclopropanecarboxylic acid
 RL: RCT (Reactant); RACT (Reactant or reagent) (process and catalysts for the prepn. of lower alkyl cyclopropanecarboxylate esters)
 RN 1759-53-1 CAPLUS
 CN Cyclopropanecarboxylic acid (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



L7 ANSWER 19 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1997:218556 CAPLUS
 DOCUMENT NUMBER: 126:211727
 TITLE: Investigation of the Effects of the Structure and Chelate Size of Bis-oxazoline Ligands in the Asymmetric Copper-Catalyzed Cyclopropanation of Olefins: Design of a New Class of Ligands
 AUTHOR(S): Bedekar, Ashutosh V.; Koroleva, Elise B.;
 Andersson,
 Pher G.
 CORPORATE SOURCE: Department of Organic Chemistry Institute of Chemistry, Uppsala University, Uppsala, S-75121,
 Swed.
 SOURCE: Journal of Organic Chemistry (1997), 62(8),
 2518-2526
 CODEN: JOCEAH; ISSN: 0022-3263
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB A set of novel, C2-sym. bis-oxazoline ligands have been synthesized by mounting two oxazoline rings onto an optically active 1,3-dioxolane backbone. This design allows for the control of both orientation as well as the proximity of the oxazolinyll R-groups around the reactive site. As a result of the twist imparted by the 1,3-dioxolane ring, the stereogenic oxazolinyll substituents can be brought either toward or away from the complexed metal in a controllable fashion. Starting from L-amino alcs. and either L- or D-tartaric acid, two sets of ligands: (I; R1 = benzyl, i-Pr, t-Bu, sec-Bu; R2 = H and II; R1 = i-Pr, t-Bu; R2 = H) were synthesized and evaluated in the copper-catalyzed cyclopropanation of olefins. The comparison of benzyl and iso-Pr derivs. of these ligands with previously reported five- and six-membered bis-oxazolines clearly indicates the beneficiary effect of the larger chelate size and the chiral tether of the tartrate-derived ligand. The effect of the different oxazolinyll groups along with the different substituents on the dioxolane tethers was also investigated. The influence of the alkyl group of the

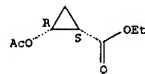
L7 ANSWER 19 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 diazoacetate was studied, and the diazoacetate derived from
 (-)-8-phenylmenthol was found to be superior to (-)-menthyl
 diazoacetate.

The cyclopropanation of vinyl acetate, a relatively unexplored
 substrate for this reaction, furnished cyclopropanol derivs. in good optical
 purity.

IT 141694-54-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (60% ee; effects of the structure and chelate size of
 bis-oxazoline
 ligands in the asym. copper-catalyzed cyclopropanation of olefins)
 RN 141694-54-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(acetyloxy)-, ethyl ester,
 (1R,2S)-rel- (9CI) (CA INDEX NAME)

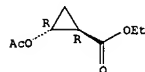
Relative stereochemistry.



IT 141694-55-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (64% ee; effects of the structure and chelate size of
 bis-oxazoline
 ligands in the asym. copper-catalyzed cyclopropanation of olefins)
 RN 141694-55-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(acetyloxy)-, ethyl ester,
 (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

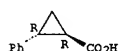


IT 188052-75-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (74% de; effects of the structure and chelate size of
 bis-oxazoline
 ligands in the asym. copper-catalyzed cyclopropanation of olefins)
 RN 188052-75-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(acetyloxy)-, 5-methyl-2-(1-
 methylethyl)cyclohexyl ester, [1R-[1.alpha.(1R*,2R*),2.beta.,5.alpha.]]-
 (9CI) (CA INDEX NAME)

L7 ANSWER 19 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

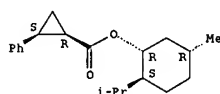
Relative stereochemistry.



IT 67489-30-9P 67528-67-0P

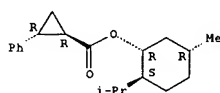
RL: SPN (Synthetic preparation); PREP (Preparation)
 (89% de; effects of the structure and chelate size of
 bis-oxazoline
 ligands in the asym. copper-catalyzed cyclopropanation of olefins)
 RN 67489-30-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2S,5R)-5-methyl-2-(1-
 methylethyl)cyclohexyl ester, (1R,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 67528-67-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2S,5R)-5-methyl-2-(1-
 methylethyl)cyclohexyl ester, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

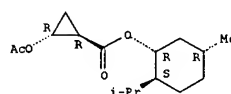


IT 180185-09-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (91% de; effects of the structure and chelate size of
 bis-oxazoline
 ligands in the asym. copper-catalyzed cyclopropanation of olefins)
 RN 180185-09-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, 5-methyl-2-(1-methyl-1-
 phenylethyl)cyclohexyl ester, [1R-[1.alpha.(1R*,2S*),2.beta.,5.alpha.]]-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.

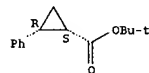
L7 ANSWER 19 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 Absolute stereochemistry.



IT 96426-88-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (84% ee; effects of the structure and chelate size of bis-oxazoline
 ligands in the asym. copper-catalyzed cyclopropanation of olefins)
 RN 96426-88-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, 1,1-dimethylethyl ester,
 (1R,2S)-rel- (9CI) (CA INDEX NAME)

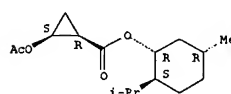
Relative stereochemistry.



IT 188052-76-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (88% de; effects of the structure and chelate size of bis-oxazoline
 ligands in the asym. copper-catalyzed cyclopropanation of olefins)
 RN 188052-76-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(acetyloxy)-, 5-methyl-2-(1-
 methylethyl)cyclohexyl ester, [1R-[1.alpha.(1R*,2S*),2.beta.,5.alpha.]]-
 (9CI) (CA INDEX NAME)

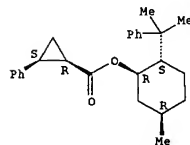
Absolute stereochemistry.



IT 939-90-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (88% ee; effects of the structure and chelate size of bis-oxazoline
 ligands in the asym. copper-catalyzed cyclopropanation of olefins)
 RN 939-90-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2R)-rel- (9CI) (CA INDEX
 NAME)

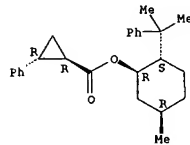
L7 ANSWER 19 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



IT 180036-70-8P

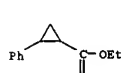
RL: SPN (Synthetic preparation); PREP (Preparation)
 (96% de; effects of the structure and chelate size of bis-oxazoline
 ligands in the asym. copper-catalyzed cyclopropanation of olefins)
 RN 180036-70-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, 5-methyl-2-(1-methyl-1-
 phenylethyl)cyclohexyl ester, [1R-[1.alpha.(1R*,2R*),2.beta.,5.alpha.]]-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 97-71-2P 34702-97-1P 34716-60-4P

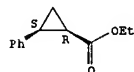
RL: FNU (Preparation, unclassified); PREP (Preparation)
 (effects of the structure and chelate size of bis-oxazoline
 ligands in the asym. copper-catalyzed cyclopropanation of olefins)
 RN 97-71-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester (7CI, 8CI, 9CI)
 (CA INDEX NAME)



RN 34702-97-1 CAPLUS

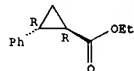
L7 ANSWER 19 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1R,2S)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



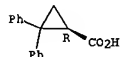
RN 34716-60-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1R,2R)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 53692-74-3P 132098-61-4P 180036-71-9P
 188052-74-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (effects of the structure and chelate size of bis-oxazoline
 ligands in
 the asym. copper-catalyzed cyclopropanation of olefins)
 RN 53692-74-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-diphenyl-, (R)- (9CI) (CA INDEX
 NAME)

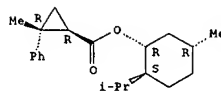
Absolute stereochemistry. Rotation (-).



RN 132098-61-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-methyl-2-phenyl-, 5-methyl-2-(1-
 methylethyl)cyclohexyl ester,
 [1R-[1.alpha.(1R*,2R*),2.beta.,5.alpha.]]-
 (9CI) (CA INDEX NAME)

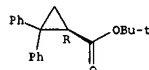
Absolute stereochemistry.

L7 ANSWER 19 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



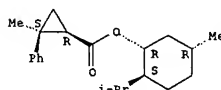
RN 180036-71-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-diphenyl-, 1,1-dimethylethyl ester,
 (1R)-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 188052-74-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-methyl-2-phenyl-, 5-methyl-2-(1-
 methylethyl)cyclohexyl ester,
 [1R-[1.alpha.(1R*,2S*),2.beta.,5.alpha.]]-
 (9CI) (CA INDEX NAME)

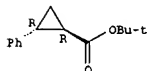
Absolute stereochemistry.



IT 5279-78-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (the acid is 88% ee; effects of the structure and chelate size of
 bis-oxazoline ligands in the asym. copper-catalyzed
 cyclopropanation of
 olefins)
 RN 5279-78-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, 1,1-dimethylethyl ester,
 (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

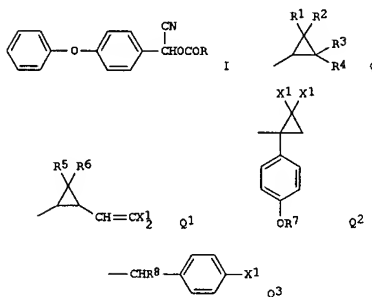
L7 ANSWER 19 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



L7 ANSWER 20 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1997:186323 CAPLUS
 DOCUMENT NUMBER: 126:185892
 TITLE: Preparation of .alpha.-cyanobenzyl esters from
 acyl
 halides, phenoxybenzaldehyde, and metal cyanides
 INVENTOR(S): Kanechika, Tatsuo; Uehara, Toshiaki
 PATENT ASSIGNEE(S): Sumitomo Chemical Co, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09003029	A2	19970107	JP 1995-154524	19950621

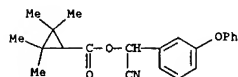
OTHER SOURCE(S): CASREACT 126:185892; MARPAT 126:185892
 GI



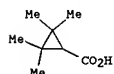
AB The title esters I (R = Q, Q1, Q2, Q3; R1-8 = H, linear or branched
 lower
 alkyl; X1 = halo) are prepd. by treatment of RCOX (R = same as above;
 X =
 halo) with 3-PhOC6H4CHO (II) and alkali metal or alk. earth metal
 cyanides
 in a two-phase solvent composed of inert org. solvents and H2O in the
 presence of phase-transfer catalysts and R9CO2H (R9 = same as R
 or C6H4OPh-3). A toluene soln. of II and 3-PhOC6H4CO2H (III) was
 added
 dropwise to an aq. soln. of NaCN and PhCH2Et3N+ Cl- at 5.degree..

L7 ANSWER 20 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 Subsequently a toluene soln. of
 2,2,3,3-tetramethylcyclopropanecarbonyl
 chloride was added dropwise to the above reaction mixt. while
 continuing the addn. of the first soln. and the mixt. was further stirred for 1
 h
 after the finish of addn. of both solns. to give 99.8%
 3-phenoxy-.alpha.-cyanobenzyl
 2,2,3,3-tetramethylcyclopropanecarboxylate
 with purity 95.5%, vs. 97.0 and 84.9%, resp., for a control reaction
 using no III.

IT 39515-41-8P
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
 (Preparation)
 (prepn. of phenoxy-.alpha.-cyanobenzyl esters from acyl halides,
 phenoxybenzaldehyde, and metal cyanides in presence of carboxylic
 acids)
 RN 39515-41-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl-, cyano(3-
 phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)

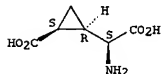


IT 15641-58-4, 2,2,3,3-Tetramethylcyclopropanecarboxylic acid
 RL: RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological
 study, unclassified); PREP (Preparation)
 (syntheses of phenoxy-.alpha.-cyanobenzyl esters from acyl halides,
 phenoxybenzaldehyde, and metal cyanides in presence of carboxylic
 acids)
 RN 15641-58-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl- (6CI, 8CI, 9CI)
 (CA INDEX NAME)



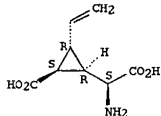
L7 ANSWER 21 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 study, unclassified); SPN (Synthetic preparation); BIOL (Biological
 study); PREP (Preparation)
 (syntheses of (carboxycyclopropyl)glycine analogs and their
 characterization to ionotropic glutamate receptors)
 RN 117857-96-2 CAPLUS
 CN Cyclopropanecarboxylic acid, .alpha.-amino-2-carboxy-, (.alpha.S,1R,2S)-
 (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



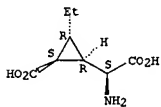
RN 185041-29-6 CAPLUS
 CN Cyclopropanecarboxylic acid, .alpha.-amino-2-carboxy-3-ethenyl-,
 [1R-[1.alpha.(S*),2.alpha.,3.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 185041-32-1 CAPLUS
 CN Cyclopropanecarboxylic acid, .alpha.-amino-2-carboxy-3-ethyl-,
 [1R-[1.alpha.(S*),2.alpha.,3.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 185041-58-1P 185041-60-5P 185041-61-6P
 185041-62-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
 RACT
 (Reactant or reagent)

L7 ANSWER 21 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1996:673288 CAPLUS
 DOCUMENT NUMBER: 126:47527
 TITLE: Syntheses of trans-3'-substituted-CCG-IV analogs
 and

their characterization to ionotropic glutamate
 receptors
 AUTHOR(S): Shimamoto, Keiko; Shigen, Yasushi; Nakajima,
 Terumi;
 Yumoto, Noboru; Yoshikawa, Susumu; Ohfune,

Yasufumi
 CORPORATE SOURCE: Suntory Inst. Bioorganic Res., Mishima, 618, Japan
 SOURCE: Bioorganic & Medicinal Chemistry Letters (1996),
 6(20), 2381-2386
 CODEN: BMCLES; ISSN: 0960-894X

PUBLISHER: Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English

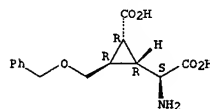
AB Trans-3'-substituted-CCG-IV analogs [CCG-IV is (2-
 carboxycyclopropyl)glycine, the substituent is Et or ethenyl] were
 efficiently synthesized via an intramol. cycloaddn. of a

diazocetamide
 using a chiral rhodium catalyst. These analogs evoked marked
 depolarization through ionotropic glutamate receptors on the spinal
 motoneurons or the kainate-sensitive dorsal root C-fiber of new born

rats
 even though their binding affinities for the receptors on rat brain
 synaptic membranes were relatively low. These results suggest that
 the depolarizing action on C-fiber is not caused by the activation of
 kainate high affinity sites.

IT 135658-96-7
 RL: BAC (Biological activity or effector, except adverse); BSU
 (Biological study, unclassified); BIOL (Biological study)
 (syntheses of (carboxycyclopropyl)glycine analogs and their
 characterization to ionotropic glutamate receptors)
 RN 135658-96-7 CAPLUS
 CN Cyclopropanecarboxylic acid, .alpha.-amino-2-carboxy-3-[(phenylmethoxy)methyl]-
 , [1R-[1.alpha.(S*),2.alpha.,3.beta.]]- (9CI) (CA INDEX NAME)

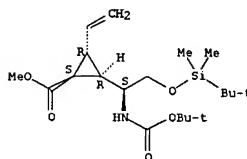
Absolute stereochemistry.



IT 117857-96-2DP, derivs. 185041-29-6P 185041-32-1P
 RL: BAC (Biological activity or effector, except adverse); BSU
 (Biological study, unclassified)

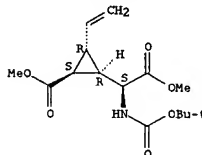
L7 ANSWER 21 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 (syntheses of (carboxycyclopropyl)glycine analogs and their
 characterization to ionotropic glutamate receptors)
 RN 185041-58-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-[1-[[[(1,1-dimethylethoxy)carbonyl]amino]-2-
 [[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethyl]-3-ethenyl-, methyl
 ester, [1S-[1.alpha.,2.alpha.(R*),3.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



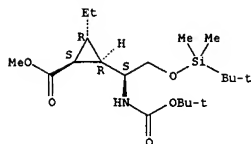
RN 185041-60-5 CAPLUS
 CN Cyclopropanecarboxylic acid, .alpha.-amino-2-[[[(1,1-dimethylethoxy)carbonyl]amino]-2-
 ethenyl-3-(methoxycarbonyl)-, methyl ester, [1R-
 [1.alpha.(S*),2.alpha.,3.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



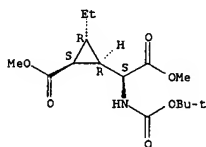
RN 185041-61-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-[1-[[[(1,1-dimethylethoxy)carbonyl]amino]-2-
 [[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethyl]-3-ethyl-, methyl ester,
 [1S-[1.alpha.,2.alpha.(R*),3.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

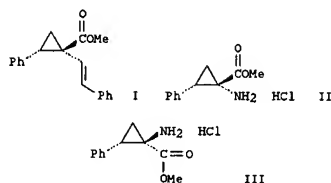


RN 185041-62-7 CAPLUS
 CN Cyclopropanecarboxylic acid,
 .alpha.-[[[1,1-dimethylethoxy]carbonyl]amino]-2-
 ethyl-3-(methoxycarbonyl)-, methyl ester, [1R-
 [1.alpha.(S*),2.beta.,3.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



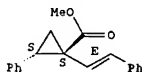
L7 ANSWER 22 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1996:394106 CAPLUS
 DOCUMENT NUMBER: 125:167480
 TITLE: Asymmetric Cyclopropanations by Rhodium(II)
 N-(Arylsulfonyl)prolinate Catalyzed Decomposition
 of
 Vinylidiazomethanes in the Presence of Alkenes.
 Practical Enantioselective Synthesis of the Four
 Stereoisomers of 1-Amino-2-
 phenylcyclopropanecarboxylic acid
 Davies, Huw M. L.; Bruzinski, Paul; Hutcherson,
 Debra
 AUTHOR(S):
 K.; Kong, Norman; Fall, Michael J.
 CORPORATE SOURCE: Department of Chemistry, State University of New
 York, Buffalo, NY, 14260-3000, USA
 SOURCE: J. Am. Chem. Soc. (1996), 118(29), 6897-6907
 CODEN: JACSAT; ISSN: 0002-7863
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 125:167480
 GI



AB The rhodium N-(arylsulfonyl)prolinate catalyzed decompn. of
 vinylidiazomethanes in the presence of alkenes yielded a very general
 method for the synthesis of functionalized cyclopropanes in a highly
 diastereoselective and enantioselective mode. A detailed study was
 undertaken to det. the key factors that control the
 enantioselectivity of
 this process. The highest levels of enantioselectivity were obtained
 using cyclic N-(arylsulfonyl)amino acids as ligands for the dirhodium
 catalyst, and the optimized catalyst was
 tetrakis[N-[(4-dodecylphenyl)sulfonyl]-(L)-prolinate]dirhodium. The
 carbenoid structure had a crit. effect on the degree of asym.
 induction,
 and the combination of a small electron-withdrawing group such as a Me
 ester and an electron-donating group such as vinyl or Ph resulted in
 the highest levels of enantioselectivity. The use of electron neutral
 alkenes

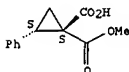
L7 ANSWER 22 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 and pentane as solvent also enhanced the enantioselectivity of the
 process. The synthetic utility of this chem. was illustrated by its
 application to the synthesis of all four stereoisomers of
 1-amino-2-phenylcyclopropanecarboxylic acid. The occurrence of the
 highly
 stereoselective cyclopropanations was rationalized by a model in
 which the
 ligands were considered to adopt a D2 sym. arrangement. The
 tetrakis[.mu.-[1-[(4-dodecylphenyl)sulfonyl]-L-prolinate-O2:O2']]dirhodium
 -
 catalyzed cyclopropanation of 2-diazo-4-phenyl-3-butenic acid Me
 ester
 with styrene gave [1S-[1.alpha.,1(E),2.beta.]]-2-phenyl-1-(2-
 phenylethenyl)cyclopropanecarboxylic acid Me ester (I). I was
 elaborated
 into (1S-cis)-1-amino-2-phenylcyclopropanecarboxylic acid
 hydrochloride
 (II) and (1R-trans)-1-amino-2-phenylcyclopropanecarboxylic acid
 hydrochloride (III).
 IT 153062-73-8P 158800-59-0P 158800-60-3P
 180322-77-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of cyclopropanecarboxylates by rhodium
 (arylsulfonyl)prolinate-
 catalyzed asym. cyclopropanation of vinylidiazomethanes with
 alkenes)
 RN 153062-73-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-1-[(1E)-2-phenylethenyl]-,
 methyl
 ester, (1S,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



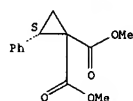
RN 158800-59-0 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2-phenyl-, monomethyl ester,
 (1S-cis)-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



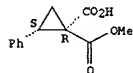
L7 ANSWER 22 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RN 158800-60-3 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2-phenyl-, dimethyl ester, (S)-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



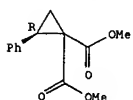
RN 180322-77-4 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2-phenyl-, monomethyl ester,
 (1R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



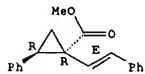
IT 72397-56-9P 128700-57-2P 154841-83-5P
 154841-84-6P 154841-85-7P 154841-86-8P
 154966-39-9P 180193-32-2P 180193-33-3P
 180322-75-2P 180322-76-3P 180322-81-0P
 180322-82-1P 180322-83-2P 180322-84-3P
 180322-87-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of cyclopropanecarboxylates by rhodium
 (arylsulfonyl)prolinate-
 catalyzed asym. cyclopropanation of vinylidiazomethanes with
 alkenes)
 RN 72397-56-9 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2-phenyl-, dimethyl ester, (R)-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



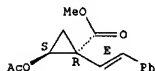
L7 ANSWER 22 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RN 128700-57-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-1-[(1E)-2-phenylethenyl]-, methyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
 Double bond geometry as shown.



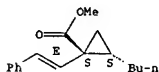
RN 154841-83-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(acetyloxy)-1-(2-phenylethenyl)-, methyl ester, [1.alpha.,1(E),2.beta.]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
 Double bond geometry as shown.



RN 154841-84-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-butyl-1-(2-phenylethenyl)-, methyl ester, [1.alpha.,1(E),2.beta.]- (9CI) (CA INDEX NAME)

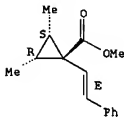
Relative stereochemistry.
 Double bond geometry as shown.



RN 154841-85-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-ethyl-1-(2-phenylethenyl)-, methyl ester, [1.alpha.,1(E),2.beta.]- (9CI) (CA INDEX NAME)

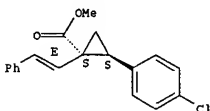
Relative stereochemistry.
 Double bond geometry as shown.

L7 ANSWER 22 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 Double bond geometry as shown.



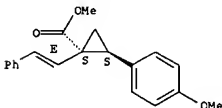
RN 180322-75-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(4-chlorophenyl)-1-(2-phenylethenyl)-, methyl ester, [1S-[1.alpha.,1(E),2.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



RN 180322-76-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(4-methoxyphenyl)-1-(2-phenylethenyl)-, methyl ester, [1S-[1.alpha.,1(E),2.beta.]]- (9CI) (CA INDEX NAME)

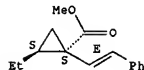
Absolute stereochemistry.
 Double bond geometry as shown.



RN 180322-81-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-1-(2-phenylethenyl)-, ethyl ester, [1S-[1.alpha.,1(E),2.beta.]]- (9CI) (CA INDEX NAME)

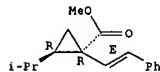
Absolute stereochemistry.
 Double bond geometry as shown.

L7 ANSWER 22 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



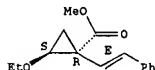
RN 154841-86-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(1-methylethyl)-1-(2-phenylethenyl)-, methyl ester, [1.alpha.,1(E),2.beta.]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
 Double bond geometry as shown.



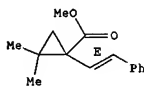
RN 154966-39-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-ethoxy-1-(2-phenylethenyl)-, methyl ester, [1.alpha.,1(E),2.beta.]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
 Double bond geometry as shown.



RN 180193-32-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-1-(2-phenylethenyl)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

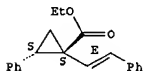
Double bond geometry as shown.



RN 180193-33-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,3-dimethyl-1-(2-phenylethenyl)-, methyl ester, [1.alpha.,1(E),2.beta.,3.beta.]- (9CI) (CA INDEX NAME)

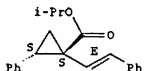
Relative stereochemistry.

L7 ANSWER 22 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



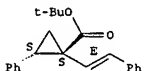
RN 180322-82-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-1-(2-phenylethenyl)-, 1-methylethyl ester, [1S-[1.alpha.,1(E),2.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



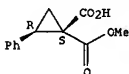
RN 180322-83-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-1-(2-phenylethenyl)-, 1,1-dimethylethyl ester, [1S-[1.alpha.,1(E),2.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



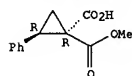
RN 180322-84-3 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2-phenyl-, monomethyl ester, (1S-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 180322-87-6 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2-phenyl-, monomethyl ester, (1R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

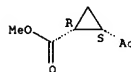


ACCESSION NUMBER: 1996:315725 CAPLUS
 DOCUMENT NUMBER: 125:58630
 TITLE: Asymmetric [2 + 1] Cycloaddition Reactions of
 1-Seleno-2-silylethene
 AUTHOR(S): Yamazaki, Shoko; Tanaka, Mayumi; Yamabe, Shinichi
 CORPORATE SOURCE: Department of Chemistry, Nara University of
 Education, Nara, 630, Japan
 SOURCE: J. Org. Chem. (1996), 61(12), 4046-4050
 CODEN: JOCEAH; ISSN: 0022-3263
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 125:58630
 GI



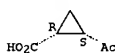
AB The reaction of (E)-1-(phenylseleno)-2-(trimethylsilyl)ethene (1) and vinyl ketones, e.g., CH₂:CHAc, in the presence of a chiral Lewis acid prep. from TiCl₄, Ti(OiPr)₄, (R)- or (S)-1,1'-binaphthol (BINOL), and mol. sieve MS4A gave enantiomerically enriched cis cyclopropane products, e.g., 1 (3a). The enantiomeric excess and chem. yield varied depending on the ratio of TiCl₄ and Ti(OiPr)₄ to 1. Reproducible results (43-47% ee/33-41% yields) for 3a were obtained using 1.1 equiv of TiCl₄, 0.54-0.65 equiv of Ti(OiPr)₄, and 1.65 equiv of BINOL. The obsd. enantioselectivity was explained by consideration of the structure of the postulated intermediates, alkoxy Ti-carbonyl complexes, via ab initio MO calcs.
 IT 178033-26-6P 178033-28-8P
 RL: SFN (Synthetic preparation); PREP (Preparation)
 (stereoselective cycloaddn. reaction of selenosilylethene with vinyl ketones to give cis-cyclopropanes)
 RN 178033-26-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-acetyl-, methyl ester, (1R-cis)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 178033-28-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-acetyl-, (1R-cis)- (9CI) (CA INDEX NAME)

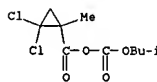
Absolute stereochemistry. Rotation (-).



ACCESSION NUMBER: 1996:181373 CAPLUS
 DOCUMENT NUMBER: 124:342187
 TITLE: Lipase-catalyzed resolution of chiral acids or alcohols using mixed carboxylic-carbonic anhydrides
 AUTHOR(S): Guibe-Jampel, Eryka; Chalecki, Zbigniew; Bassir, Mohamed; Gelo-Fujic, Mirjana
 CORPORATE SOURCE: Lab. Reactions Selectives Supports, Univ. Paris-Sud, Orsay, 91405, Fr.
 SOURCE: Tetrahedron (1996), 52(12), 4397-402
 CODEN: TETRAE; ISSN: 0040-4020
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Mixed carboxylic-carbonic anhydrides are efficient irreversible acyl transfer reagents for lipase catalyzed esterification in org. media and can be used for the resolu. of chiral carboxylic acids or alcoh.
 IT 1447-14-9P
 RL: BPN (Biosynthetic preparation); RCT (Reactant); BIOL (Biological study); PREP (Preparation)
 (lipase-catalyzed resolu. of chiral acids or alcoh. using mixed carboxylic-carbonic anhydrides)
 RN 1447-14-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dichloro-1-methyl- (6CI, 7CI, 8CI, 9CI)
 (CA INDEX NAME)



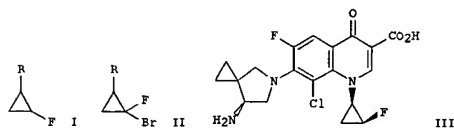
IT 176438-82-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (lipase-catalyzed resolu. of chiral acids or alcoh. using mixed carboxylic-carbonic anhydrides)
 RN 176438-82-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dichloro-1-methyl-, anhydride with 2-methylpropyl hydrogen carbonate (9CI) (CA INDEX NAME)



L7 ANSWER 25 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1995:89887 CAPLUS
 DOCUMENT NUMBER: 123:313432
 TITLE: Preparation of 2-fluorocyclopropanemethanol and 2-fluorocyclopropanecarboxylic acid
 INVENTOR(S): Yukimoto, Junsuke; Ehata, Tautomu; Tojo, Toshiaki; Inanaga, Minako; Sato, Koji
 PATENT ASSIGNEE(S): Daiichi Seiyaku Co., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07109237	A2	19950425	JP 1993-253941	19931012

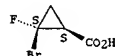
OTHER SOURCE(S): CASREACT 123:313432; MARPAT 123:313432
 GI



AB The title compds. (I; R = OR₁ or CO₂R₂; wherein R₁ = H or CH₂Ph; R₂ = H, lower alkyl), useful as intermediate for an antibacterial agent (III), are
 prep'd. by reductive debromination of 2-bromo-2-fluorocyclopropane derivs.
 (II; R = same as above), involving (1) treatment of I with an alkali or alk. earth metal in the presence of a H-source, and in particular, Na in an alc., (2) treatment of I with Zn in H₂O-contg. acetone, or (3) catalytic hydrogenation of I in the presence of a base, in particular Pd-C and ethylenediamine. Thus, 259 mg II (R = PhCH₂O) (cis/trans isomer ratio = 1.04) (prepn. given) was dissolved in 5 mL MeOH followed by adding 644 mg Na metal and the resulting mixt. was stirred at room temp. to give 28.2% trans-I (R = PhCH₂O) and cis-I (R = PhCH₂O). The starting material II (R = PhCH₂O) was prep'd. in 59% yield by carbene insertion of allyl benzyl ether with Br₂CHF in the presence of KOH and MgSO₄ under ice-cooling and hydrogenated over 5% Pd-C in MeOH to give 98% II (R =

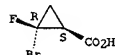
L7 ANSWER 25 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 HOCH₂O) which was oxidized with KMnO₄ in acetone to II (R = HO₂C).
 II (R = HOCH₂O) was dissolved in acetone/H₂O (80/20 vol. ratio) and after adding 3.92 g Zn powder, refluxed for 16 h to give a mixt. of cis- and trans-I (R = HOCH₂O) in 80.8% yield. II (R = HO₂C) was dissolved in BuOH/Et₃N (4/1 vol. ratio) followed by adding 460 mg Na metal and the resulting mixt. was stirred at room temp. for 1 h to give 10% trans-I (R = HO₂C) and 9.6% cis-I (R = HO₂C).
 IT 161492-61-1P, cis-2-Bromo-2-fluorocyclopropanecarboxylic acid
 161492-62-2P, trans-2-Bromo-2-fluorocyclopropanecarboxylic acid
 164342-84-1P, Ethyl cis-2-bromo-2-fluorocyclopropanecarboxylate
 164342-85-2P, Ethyl trans-2-bromo-2-fluorocyclopropanecarboxylate
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (intermediate; prepn. of fluorocyclopropanemethanol and -carboxylic acid derivs. by reductive debromination of bromofluorocyclopropanemethanol and -carboxylic acid derivs.)
 RN 161492-61-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-bromo-2-fluoro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 161492-62-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-bromo-2-fluoro-, trans- (9CI) (CA INDEX NAME)

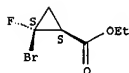
Relative stereochemistry.



RN 164342-84-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-bromo-2-fluoro-, ethyl ester, cis- (9CI) (CA INDEX NAME)

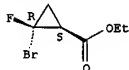
Relative stereochemistry.

L7 ANSWER 25 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



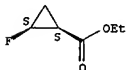
RN 164342-85-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-bromo-2-fluoro-, ethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 84388-71-6P, Ethyl cis-2-fluorocyclopropanecarboxylate
 84388-72-7P, Ethyl trans-2-fluorocyclopropanecarboxylate
 105919-34-4P, cis-2-Fluorocyclopropanecarboxylic acid
 130340-04-4P, trans-2-Fluorocyclopropanecarboxylic acid
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of fluorocyclopropanemethanol and -carboxylic acid derivs. by reductive debromination of bromofluorocyclopropanemethanol and -carboxylic acid derivs.)
 RN 84388-71-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-fluoro-, ethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

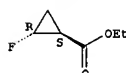
Relative stereochemistry.



RN 84388-72-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-fluoro-, ethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

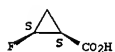
Relative stereochemistry.

L7 ANSWER 25 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



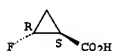
RN 105919-34-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-fluoro-, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 130340-04-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-fluoro-, (1R,2S)-rel- (9CI) (CA INDEX NAME)

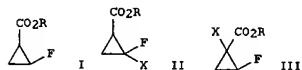
Relative stereochemistry.



L7 ANSWER 26 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1995:718026 CAPLUS
 DOCUMENT NUMBER: 123:338860
 TITLE: The mechanism of RuO4-mediated oxidations of ethers:
 isotope effects, solvent effects and substituent effects
 AUTHOR(S): Bakke, Jan M.; Froehaug, Astrid E.
 CORPORATE SOURCE: Organic Chemistry Lab., Norwegian Inst. Technology,
 Trondheim, N-7034, Norway
 SOURCE: Acta Chem. Scand. (1995), 49(8), 615-22
 CODEN: ACHSE7; ISSN: 0904-213X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The mechanism of the RuO4-mediated oxidn. of ethers to esters has been investigated. Oxidn. of cyclopropylmethyl Me ether gave Me cyclopropanecarboxylate. No rearranged products were obsd. On RuO4 oxidn. of benzyl Me ether and p-methoxybenzyl Me ether in CCl4 with NaIO4 as stoichiometric oxidant, no chlorinated products were obsd. A series of 4-substituted benzyl Me ethers was oxidized with RuO4-NaIO4. A correlation of the rate of the reaction with Hammett .sigma.-values gave a .rho. of -1.7, indicating only a moderate charge sepn. in the transition state (TS). Benzyl Me ether (1) was oxidized in a series of acetone-water mixts. From these expts., a m-value of 0.11 was obtained, indicating a non-polar TS for the reaction. PhCHDOCH3 (2) and PhCD2OCH3 (3) were oxidized and two deuterium isotope effects, one of 6.1 +/- 0.4 and another of 1.3 +/- 0.1 were obtained. If one assumes a one-step reaction mechanism, the value of 1.3 would be a large .alpha.-secondary isotope effect, indicating a change in the hybridization of the benzylic carbon during the reaction. .alpha.-Methylbenzyl Me ether (4) was oxidized at a seventh of the rate of 1, despite the fact that 4 would have given a more stable carbocation than 1. These conflicting pieces of evidence are difficult to rationalize with a hydride or hydrogen abstraction mechanism. Instead it is proposed that the reaction proceeds by either a concerted reaction or by a reversible oxidative addn. of the ether to RuO4 followed by a slow concerted step to give the product.
 IT 1759-53-1P, Cyclopropanecarboxylic acid 2868-37-3P,
 Methyl cyclopropanecarboxylate
 RL: PNU (Preparation, unclassified); PREP (Preparation)
 (isotope effects, solvent effects and substituent effects and mechanism)

L7 ANSWER 27 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1995:648076 CAPLUS
 DOCUMENT NUMBER: 123:55420
 TITLE: Selective dehalogenation method
 INVENTOR(S): Akiba, Toshifumi; Ikeya, Takanobu; Kawanishi, Hirofumi; Yukimoto, Yusuke; Kamihara, Shinji;
 Ebata, Tsutomu
 PATENT ASSIGNEE(S): Daiichi Pharmaceutical Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 23 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9504712	A1	19950216	WO 1994-JP1280	19940803
W: US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 712831	A1	19960522	EP 1994-923063	19940803
EP 712831	B1	19991103		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
AT 186292	E	19991115	AT 1994-923063	19940803
ES 2140547	T3	20000301	ES 1994-923063	19940803
JP 07097353	A2	19950411	JP 1994-183173	19940804
US 5780669	A	19980714	US 1996-592402	19960201
PRIORITY APPLN. INFO.:			JP 1993-194423	19930805
			WO 1994-JP1280	19940803
OTHER SOURCE(S):		CASREACT 123:55420; MARPAT 123:55420		
GI				



AB Fluorocyclopropanecarboxylates I (R = H, alkyl) were prepd. by catalytic hydrogenolysis of halofluorocyclopropanecarboxylates II or III (R = H, alkyl; X = Br, Cl) in the presence of a base and a metal catalyst. Thus, hydrogenolysis of cis- and trans-2-chloro-2-fluoro-1-cyclopropanecarboxylic acid Et ester in EtOH in the presence of 1,2-diaminoethane and Raney Ni at room temp. for 24 h gave 88.9% cis- and trans-2-fluoro-1-cyclopropanecarboxylic acid Et ester.
 IT 130340-02-2 130340-13-5 161492-61-1
 161492-62-2
 RL: RCT (Reactant)

L7 ANSWER 26 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 of RuO4-mediated oxidns. of ethers)
 RN 1759-53-1 CAPLUS
 CN Cyclopropanecarboxylic acid (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



RN 2868-37-3 CAPLUS
 CN Cyclopropanecarboxylic acid, methyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



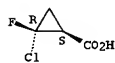
L7 ANSWER 27 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 (selective dehalogenation of halofluorocyclopropanecarboxylates)
 RN 130340-02-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-chloro-2-fluoro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



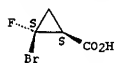
RN 130340-13-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-chloro-2-fluoro-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



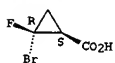
RN 161492-61-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-bromo-2-fluoro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 161492-62-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-bromo-2-fluoro-, trans- (9CI) (CA INDEX NAME)

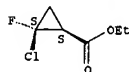
Relative stereochemistry.



IT 152237-12-2P 152237-13-3P 155687-12-0P
 155687-14-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (selective dehalogenation of halofluorocyclopropanecarboxylates)
 RN 152237-12-2 CAPLUS

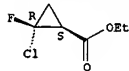
L7 ANSWER 27 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
CN Cyclopropanecarboxylic acid, 2-chloro-2-fluoro-, ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

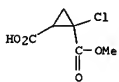


RN 152237-13-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-chloro-2-fluoro-, ethyl ester, trans- (9CI) (CA INDEX NAME)

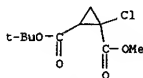
Relative stereochemistry.



RN 155687-12-0 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1-chloro-, 1-methyl ester (9CI) (CA INDEX NAME)



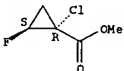
RN 155687-14-2 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1-chloro-, 2-(1,1-dimethylethyl) 1-methyl ester (9CI) (CA INDEX NAME)



IT 84388-71-6P 105919-34-4P 130340-04-4P
155687-11-9P 155687-15-3P 155687-16-4P

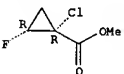
L7 ANSWER 27 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
CN Cyclopropanecarboxylic acid, 1-chloro-2-fluoro-, methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 155687-16-4 CAPLUS
CN Cyclopropanecarboxylic acid, 1-chloro-2-fluoro-, methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



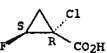
RN 157042-45-0 CAPLUS
CN Cyclopropanecarboxylic acid, 1-chloro-2-fluoro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



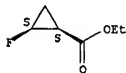
RN 157042-46-1 CAPLUS
CN Cyclopropanecarboxylic acid, 1-chloro-2-fluoro-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



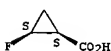
L7 ANSWER 27 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
157042-45-0P 157042-46-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(selective dehalogenation of halofluorocyclopropanecarboxylates)
RN 84388-71-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-, ethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



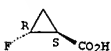
RN 105919-34-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



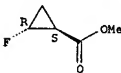
RN 130340-04-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 155687-11-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-, methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 155687-15-3 CAPLUS

L7 ANSWER 28 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1995:408778 CAPLUS
DOCUMENT NUMBER: 122:314202
TITLE: 2-Fluorocyclopropanecarboxylate esters, their preparation, and preparation of 2-fluorocyclopropanedicarboxylate esters therefrom
INVENTOR(S): Watanabe, Kazuhiro; Nakamura, Akihiko
PATENT ASSIGNEE(S): Sumitomo Chemical Co, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXKAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06345693	A2	19941220	JP 1993-134399	19930604

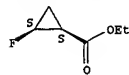
OTHER SOURCE(S): CASREACT 122:314202; MARPAT 122:314202
GI



AB Fluorocyclopropanedicarboxylate esters I (R = lower alkyl), a process for the prepn. of I by treatment of CH₂(CO₂R)₂ (II; R = lower alkyl) with FCHXCH₂Y (X, Y = Cl, Br) in hydrophilic solvents in the presence of bases or in hydrophobic solvents in the presence of bases and phase-transfer catalysts, and a process for the prepn. of the title esters III (R = lower alkyl), useful as intermediates for drugs, by decarboxylation of I in the presence of bases and phase-transfer catalysts are claimed. BrCH₂CH₂Br was added dropwise to a mixt. of II (R = Et), K₂CO₃, and Bu₄NBr at 50.degree. over 4 h and the reaction mixt. was stirred at 50.degree. for 5 h. After addn. of K₂CO₃ and dropwise addn. of BrCH₂CH₂Br over 2 h, the reaction mixt. was further stirred for 10 h to give 65% I (R = Et) (IV). A soln. contg. KOH, EtOH, and dioxane was added dropwise to a mixt. of IV, 18-crown-6, and dioxane at room temp. and the reaction mixt. was kept at room temp. for 3 h. The reaction mixt., after heating to remove EtOH, was refluxed at 100.degree. for 20 h to give 61% III (R = Et) at trans/cis ratio 91:9.
IT 84388-71-6P 84388-72-7P 156816-78-3DP, lower alkyl esters
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP

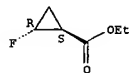
L7 ANSWER 28 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
(Preparation)
(prepn. of fluorocyclopropanecarboxylate esters)
RN 84388-71-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-, ethyl ester, (1R,2R)-rel-
(9CI) (CA INDEX NAME)

Relative stereochemistry.

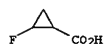


RN 84388-72-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-, ethyl ester, (1R,2S)-rel-
(9CI) (CA INDEX NAME)

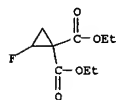
Relative stereochemistry.



RN 156816-78-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro- (9CI) (CA INDEX NAME)



IT 163266-03-3P 163266-04-4DP, lower alkyl esters
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of fluorocyclopropanecarboxylate esters)
RN 163266-03-3 CAPLUS
CN 1,1-Cyclopropanedicarboxylic acid, 2-fluoro-, diethyl ester (9CI)
(CA INDEX NAME)

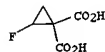


L7 ANSWER 29 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1995:347099 CAPLUS
DOCUMENT NUMBER: 122:133463
TITLE: Process and catalysts for the preparation of
lower alkyl
3-(2-chloro-3,3,3-trifluoroprop-1-en-1-yl)-
2,2-dimethylcyclopropanecarboxylate insecticide
intermediates
INVENTOR(S): Bowden, Martin Charles; Turnbull, Michael
Drysdales
PATENT ASSIGNEE(S): Zeneca Ltd., UK
SOURCE: PCT Int. Appl., 16 pp.
CODEN: PIXX02
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

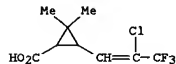
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9427951	A1	19941208	WO 1994-GB1139	19940525
W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, GE, HU, JP, KG, KP, KR, LK, LV, MD, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, TJ, TT, UA, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
GB 2278351	A1	19941130	GB 1994-10362	19940524
GB 2278351	B2	19970730		
AU 9468006	A1	19941220	AU 1994-68006	19940525
AU 696683	B2	19980917		
BR 9406657	A	19960130	BR 1994-6657	19940525
EP 700375	A1	19960313	EP 1994-916300	19940525
EP 700375	B1	19981223		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1124955	A	19960619	CN 1994-192288	19940525
CN 1065235	B	20010502		
JP 09504776	T2	19970513	JP 1994-525835	19940525
EP 832873	A1	19980401	EP 1997-121533	19940525
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE, PT, RU 2120936				
AT 174896	E	19990115	RU 1995-122568	19940525
ES 2125456	T3	19990301	AT 1994-916300	19940525
CZ 286497	B6	20000412	ES 1994-916300	19940525
IL 130698	A1	20000716	CZ 1995-3109	19940525
IL 109793	A1	20000726	IL 1994-130698	19940525
PL 179284	B1	20000831	IL 1994-109793	19940525
SK 281160	B6	20001211	PL 1994-311746	19940525
RO 116895	B1	20010730	SK 1995-1494	19940525
FI 9505702	A	19951127	RO 1995-2057	19940525
NO 9504813	A	19951127	FI 1995-5702	19951127
CN 1220255	A	19990623	NO 1995-4813	19951127
CN 1998-116705 19980725				
GB 1993-11054 A 19930528				

PRIORITY APPLN. INFO.:

L7 ANSWER 28 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
RN 163266-04-4 CAPLUS
CN 1,1-Cyclopropanedicarboxylic acid, 2-fluoro- (9CI) (CA INDEX NAME)

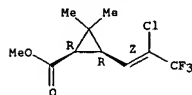


L7 ANSWER 29 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
EP 1994-916300 A3 19940525
IL 1994-109793 A3 19940525
WO 1994-GB1139 W 19940525
OTHER SOURCE(S): CASREACT 122:133463; MARPAT 122:133463
AB Lower alkyl esters of 3-(2-chloro-3,3,3-trifluoroprop-1-en-1-yl)-2,2-dimethylcyclopropanecarboxylic acid, useful as insecticide and acaricide
intermediates (no data), are prep. by reacting
CF3CXClCH(OH)CHC(CH3)2 (X = Cl, Br) with a tri(C1-4 alkyl) orthoacetate in the presence of a catalytic amt. of an acid catalyst at an elevated temp. for a sufficient time to produce ester CF3CXClCH(CHC(CH3)2CH2CO2R (R = C1-4 alkyl) which is treated with .gtoreq.1 molar equiv. of a base.
IT 74609-46-4DP, lower alkyl esters 83376-81-2P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(process and catalysts for the prep. of)
RN 74609-46-4 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl- (9CI) (CA INDEX NAME)



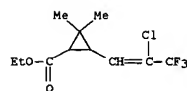
RN 83376-81-2 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-, methyl ester, [1.alpha.,3.alpha.(Z)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



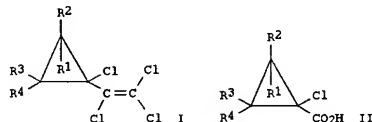
IT 71461-40-0P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(process and catalysts for the prep. of alkyl
3-(2-chloro-3,3,3-trifluoroprop-1-en-1-yl)-2,2-dimethylcyclopropanecarboxylate insecticide intermediates)
RN 71461-40-0 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-

L7 ANSWER 29 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 30 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1995:92504 CAPLUS
DOCUMENT NUMBER: 122:30975
TITLE: Cyclopropyl building blocks for organic synthesis. 29.

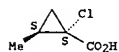
Convenient synthesis of substituted 1-chlorocyclopropanecarboxylic acids
Coudret, J. L.; Ernst, K.; de Meijere, A.;
Lab. Stereochim., Fac. Sci. St-Jerome, Marseille, F-13397, Fr.
Synthesis (1994), (9), 920-2
CODEN: SYNTBF; ISSN: 0039-7881
Journal
English
OTHER SOURCE(S): CASREACT 122:30975
GI



AB Catalytic oxidn. of various substituted 1-chloro-1-trichloroethenylcyclopropanes
[I; R1=Me, Et, t-Bu, CH2Cl, SiMe3, CH2SiMe3; R2=R3=R4=H; R1=R3=Me, R2=R4=H; R1=R2= (CH2)2, R3=R4=H] with ruthenium tetroxide generated in situ produces the corresponding 1-chlorocyclopropanecarboxylic acids (II; R1,R2,R3,R4 as above) in good yields (78 to 95%).
IT 159587-28-7P 159587-29-8P 159587-30-1P
159587-31-2P 159587-33-4P 159587-34-5P
159587-36-7P
RL: SFN (Synthetic preparation); PREP (Preparation)
(synthesis of substituted 1-chlorocyclopropanecarboxylic acids by oxidn. of tetrachloroethenylcyclopropanes in presence of ruthenium tetroxide)
RN 159587-28-7 CAPLUS
CN Cyclopropanecarboxylic acid, 1-chloro-2-methyl-, trans- (9CI) (CA INDEX NAME)

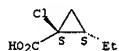
Relative stereochemistry.

L7 ANSWER 30 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 159587-29-8 CAPLUS
CN Cyclopropanecarboxylic acid, 1-chloro-2-ethyl-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



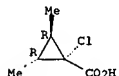
RN 159587-30-1 CAPLUS
CN Cyclopropanecarboxylic acid, 1-chloro-2-(1,1-dimethylethyl)-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 159587-31-2 CAPLUS
CN Cyclopropanecarboxylic acid, 1-chloro-2,3-dimethyl-, (1.alpha.,2.alpha.,3.beta.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 159587-33-4 CAPLUS
CN Cyclopropanecarboxylic acid, 1-chloro-2-(chloromethyl)-, trans- (9CI) (CA INDEX NAME)

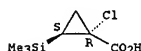
Relative stereochemistry.

L7 ANSWER 30 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

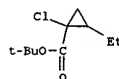


RN 159587-34-5 CAPLUS
CN Cyclopropanecarboxylic acid, 1-chloro-2-(trimethylsilyl)-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 159587-36-7 CAPLUS
CN Cyclopropanecarboxylic acid, 1-chloro-2-ethyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



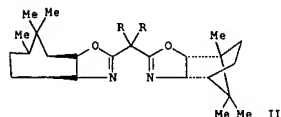
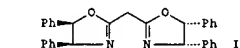
L7 ANSWER 31 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1994:605742 CAPLUS
 DOCUMENT NUMBER: 121:205742
 TITLE: Preparation of optically active bis-oxazolines
 and use

of their copper complexes in prepn. of
 chrysanthemates.
 INVENTOR(S): Masamune, Satoru; Lowenthal, Richard E.
 PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA
 SOURCE: U.S., 10 pp.
 CODEN: USXXAM

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

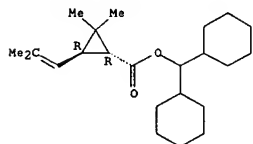
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5298623	A	19940329	US 1991-789748	19911108
OTHER SOURCE(S): CASREACT 121:205742				

GI



AB M.Xn [M = CuOTf, CuOBu-t, CuClO₄(MeCN)₂, Cu(OTf)₂, Cu(OBu-t)₂, Cu(ClO₄)₂;
 X = bisoxazoline I, II, etc.; n = 1, 2; R = H, Me; Ph groups may be substituted], were claimed for use in catalytic cyclopropanation of trisubstituted and cis-1,2-disubstituted olefins. Thus, cis-(+)-2-amino-1,2-diphenylethanol and malonic acid bisimide were stirred with Et₃N in CH₂Cl₂ at 0-23.degree. to give 72% bisoxazoline I. I was stirred with CuOTf benzene complex in CH₂Cl₂ for 1 h; the mixt. was filtered into a soln. of 2,5-dimethyl-2,4-hexadiene in CH₂Cl₂ followed by dropwise addn. of dicyclohexylmethyl diazoacetate (prepn. given) at 0.degree.. The resulting mixt. was warmed to 23.degree. and stirred 12 h to give 84% chrysanthemate ester, which was hydrolyzed to chrysanthemic acid using aq. NaOH/EtOH.

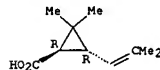
L7 ANSWER 31 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



L7 ANSWER 31 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 IT 4638-92-0P, (+)-trans-Chrysanthemic acid 55701-03-6P
 157826-02-3P 157904-70-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, using optically active copper-bisoxazoline
 cyclopropanation
 catalysts)

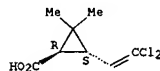
RN 4638-92-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1R,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



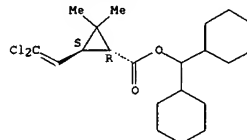
RN 55701-03-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (1R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 157826-02-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, dicyclohexylmethyl ester, (1R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 157904-70-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, dicyclohexylmethyl ester, (1R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 32 OF 139 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1994:605687 CAPLUS
 DOCUMENT NUMBER: 121:205687
 TITLE: Lipase catalyzed kinetic resolution of racemic (+,-)-2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylic esters
 AUTHOR(S): Rao, A. Bhaskar; Rehman, H.; Krishnakumari, B.; Yadav, J. S.

CORPORATE SOURCE: Div. Org. Chem. I, Indian Inst. Chem. Technol., Hyderabad, 500 007, India
 SOURCE: Tetrahedron Lett. (1994), 35(16), 2611-14
 CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 121:205687

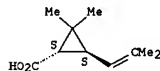
AB Optically active (1R)-(-) and (1S)-(+)-trans-Chrysanthemic acid and its esters were prepd. from corresponding racemic Me ester by lipase mediated enantioselective hydrolysis, is described.

IT 2259-14-5P, (1S)-trans-Chrysanthemic acid 4638-92-0P, (1R-trans)-Chrysanthemic acid 26770-96-7P 41641-27-4P
 83213-30-3P 157942-47-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

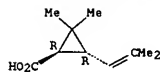
RN 2259-14-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1S,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



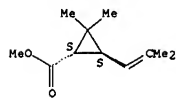
RN 4638-92-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1R,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



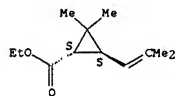
RN 26770-96-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, methyl ester, (1S,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



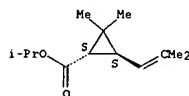
RN 41641-27-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl ester, (1S,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



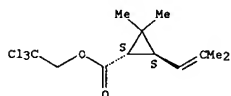
RN 83213-30-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1-methylethyl ester, (1S-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



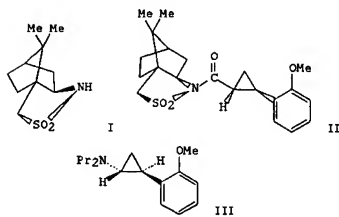
RN 157942-47-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 2,2,2-trichloroethyl ester, (1S-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 33 OF 139 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1994:579124 CAPLUS
DOCUMENT NUMBER: 121:179124
TITLE: Stereoselectivity and generality of the palladium-catalyzed cyclopropanation of .alpha.,.beta.-unsaturated carboxylic acids derivatized with Oppolzer's sultam
AUTHOR(S): Vallgärda, Jerk; Appelberg, Ulf; Coergh, Ingeborg;
CORPORATE SOURCE: Hackzell, Ulf
Dep. Org. Pharm. Chem., Uppsala Biomed. Cent., Uppsala, S-751 23, Swed.
SOURCE: J. Chem. Soc., Perkin Trans. 1 (1994), (4), 461-70
DOCUMENT TYPE: CODEN: JCPRB4; ISSN: 0300-922X
LANGUAGE: Journal
OTHER SOURCE(S): English
GI CASREACT 121:179124

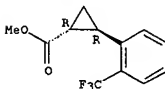


AB .alpha.,.beta.-Unsaturated carboxylic acids derivatized with camphorsultam I as a chiral auxiliary has been stereoselectively cyclopropanated. The selective reaction gave cyclopropanated products with the 1R,2R absolute configuration, as indicated by the optical rotations and X-ray structure detn. The temp. dependence of the reaction was studied with three substrates. The highest stereoselectivity was obtained at temps. above 25 .degree.C. Branching at the .alpha.-, or .beta.-carbons disfavors complete conversion, and electron-withdrawing substituents at these positions seem to prevent the reaction. The auxiliary was removed by using titanium(IV) isopropoxide in benzyl alc. followed by alk. hydrolysis of the intermediate ester. Thus, treating sultam I with 2-methoxycinnamoyl chloride followed by cyclopropanation with diazomethane gave cyclopropane II which was deprotected and converted in 3 steps to the

L7 ANSWER 33 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
potent 5-HT1A receptor agonist (1R,2S)-2-(2-(hydroxyphenyl)-N,N-dipropylcyclopropylamine (III)).

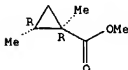
IT 157518-48-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and sapon. of)
RN 157518-48-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[2-(trifluoromethyl)phenyl]-, methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



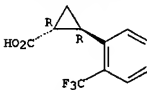
IT 104131-70-6P 157518-49-5P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
RN 104131-70-6 CAPLUS
CN Cyclopropanecarboxylic acid, 1,2-dimethyl-, methyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 157518-49-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[2-(trifluoromethyl)phenyl]-, trans- (9CI) (CA INDEX NAME)

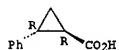
Relative stereochemistry.



IT 3471-10-1P 5034-03-7P 10487-86-2P
51197-36-5P 110901-90-1P
RL: SPN (Synthetic preparation); PREP (Preparation) (stereoselective prepn. of, use of chiral sultam intermediate for)
RN 3471-10-1 CAPLUS

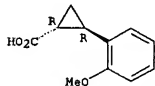
L7 ANSWER 33 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 5034-03-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(2-methoxyphenyl)-, (1R-trans)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



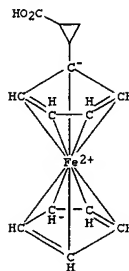
RN 10487-86-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-methyl-, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



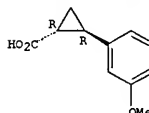
RN 51197-36-5 CAPLUS
 CN Ferrocene, (2-carboxycyclopropyl)-, stereoisomer (9CI) (CA INDEX NAME)

L7 ANSWER 33 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 110901-90-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(3-methoxyphenyl)-, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

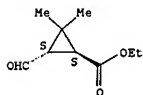


L7 ANSWER 34 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1994:299012 CAPLUS
 DOCUMENT NUMBER: 120:299012
 TITLE: A convergent approach toward the tigliane ring system
 AUTHOR(S): Dauben, William G.; Dinges, Jurgen; Smith, Timothy C.
 CORPORATE SOURCE: Dep. Chem., Univ. California, Berkeley, CA, 94720, USA
 SOURCE: J. Org. Chem. (1993), 58(27), 7635-7
 CODEN: JOCEAH; ISSN: 0022-3263
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 120:299012
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A convergent synthesis of the C6,C9-oxido-bridged tigliane system I has been achieved. The central step of the synthesis was a rhodium(II)acetate-catalyzed tandem cyclization-cycloaddn. reaction of diazoacetates II and III. A 1:1-ratio of the targeted ring system I and its 4S*, 10S*-isomer IV were isolated since the A-ring piece was introduced in its racemic form. The identity of both products was confirmed by x-ray structural anal. The rhodium-promoted formation of the B- and C-rings showed a remarkably high stereospecificity which was independent of the chirality at C-12 and either of trans-configurations of the C-4 and C-10 asym. centers.
 IT 38692-37-4P 38692-38-5P 67528-58-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and reaction of, in convergent synthetic approach to tigliane diterpene ring system)
 RN 38692-37-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-formyl-2,2-dimethyl-, ethyl ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

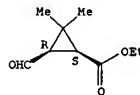
Relative stereochemistry.



RN 38692-38-5 CAPLUS

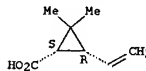
L7 ANSWER 34 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 CN Cyclopropanecarboxylic acid, 3-formyl-2,2-dimethyl-, ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

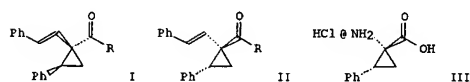


RN 67528-58-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-ethenyl-2,2-dimethyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

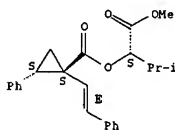


L7 ANSWER 35 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1994:298097 CAPLUS
 DOCUMENT NUMBER: 120:298097
 TITLE: .alpha.-Hydroxy esters as chiral auxiliaries in asymmetric cyclopropanations by rhodium(II)-stabilized vinylcarbenoids
 AUTHOR(S): Davies, Huw M. L.; Huby, Nicholas J. S.; Cantrell,
 CORPORATE SOURCE: William R., Jr.; Olive, Jennifer L. Dep. Chem., Wake Forest Univ., Winston-Salem, NC, 27109, USA
 SOURCE: J. Am. Chem. Soc. (1993), 115(21), 9468-79
 CODEN: JACSAT; ISSN: 0002-7863
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 120:298097
 GI



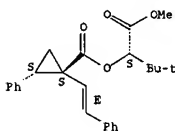
AB The use of several .alpha.-hydroxy esters as chiral auxiliaries for asym. cyclopropanation with rhodium-(II)-stabilized vinylcarbenoids is presented. Thus, (E)-PhCH:CHC(COR):N2 [R = OCHMeCH2CO2Me, OCHPhCO2Me, (2S)-1-methoxy-3,3-dimethyl-1-oxo-2-Bu, etc.] reacted with PhCH:CH2 in the presence of Rh2(OAc)4 to give cyclopropanes I and II. Use of either (R)-pantolactone or (S)-lactate allowed entry into both series of enantiomeric vinylcyclopropanes with predictable abs. stereochem. Steric and electronic modifications of the chiral auxiliary as well as catalyst structure were shown to have major effects on the asym. induction. These results were rationalized on the basis of an interaction between the carbonyl oxygen of the chiral auxiliary and the carbenoid carbon. By combining the asym. cyclopropanation with a subsequent Cope rearrangement, an enantioselective entry into hydroazulenes was achieved. The potential of the asym. cyclopropanation was illustrated by a short synthesis of (1R,2R)-phenylcyclopropane amino acid III.
 IT 153062-74-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and aminolysis of)
 RN 153062-74-9 CAPLUS

L7 ANSWER 35 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 Double bond geometry as shown.



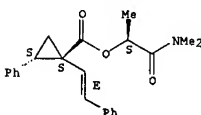
RN 152978-94-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-1-(2-phenylethenyl)-, 1-(methoxycarbonyl)-2,2-dimethylpropyl ester, [1S-[1.alpha.(R*),1(E),2.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



RN 152978-95-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-1-(2-phenylethenyl)-, 2-(dimethylamino)-1-methyl-2-oxoethyl ester, [1S-[1.alpha.(R*),1(E),2.beta.]]- (9CI) (CA INDEX NAME)

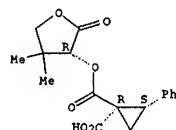
Absolute stereochemistry.
 Double bond geometry as shown.



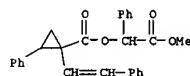
RN 152978-96-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-1-(2-phenylethenyl)-, 1-methyl-2-oxopropyl ester, [1S-[1.alpha.(S*),1(E),2.beta.]]- (9CI) (CA INDEX NAME)

L7 ANSWER 35 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 CN 1,1-Cyclopropanedicarboxylic acid, 2-phenyl-, mono(tetrahydro-4,4-dimethyl-2-oxo-3-furanyl) ester, [1R-[1.alpha.(R*),2.beta.]]- (9CI) (CA INDEX NAME)

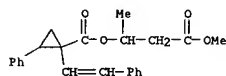
Absolute stereochemistry.



IT 138770-15-7P 152978-92-2P 152978-93-3P 152978-94-4P 152978-95-5P 152978-96-6P 153062-69-2P 153062-70-5P 153062-71-6P 153062-72-7P 153062-73-8P 153062-75-0P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 138770-15-7 CAPLUS
 CN Benzenecarboxylic acid, .alpha.-[1-[[2-phenyl-1-(2-phenylethenyl)cyclopropyl]carbonyl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



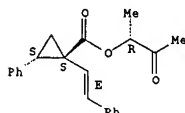
RN 152978-92-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-1-(2-phenylethenyl)-, 3-methoxy-1-methyl-3-oxopropyl ester (9CI) (CA INDEX NAME)



RN 152978-93-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-1-(2-phenylethenyl)-, 1-(methoxycarbonyl)-2-methylpropyl ester, [1S-[1.alpha.(R*),1(E),2.beta.]]- (9CI) (CA INDEX NAME)

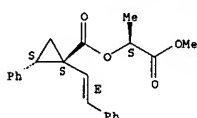
Absolute stereochemistry.

L7 ANSWER 35 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 Absolute stereochemistry.
 Double bond geometry as shown.



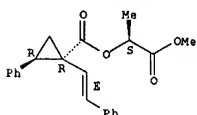
RN 153062-69-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-1-(2-phenylethenyl)-, 2-methoxy-1-methyl-2-oxoethyl ester, [1S-[1.alpha.(R*),1(E),2.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



RN 153062-70-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-1-(2-phenylethenyl)-, 2-methoxy-1-methyl-2-oxoethyl ester, [1R-[1.alpha.(S*),1(E),2.beta.]]- (9CI) (CA INDEX NAME)

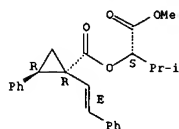
Absolute stereochemistry.
 Double bond geometry as shown.



RN 153062-71-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-1-(2-phenylethenyl)-, 1-(methoxycarbonyl)-2-methylpropyl ester, [1R-[1.alpha.(S*),1(E),2.beta.]]- (9CI) (CA INDEX NAME)

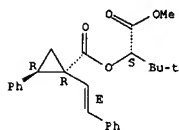
Absolute stereochemistry.

L7 ANSWER 35 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
Double bond geometry as shown.



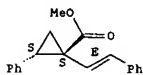
RN 153062-72-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-1-(2-phenylethenyl)-, 1-(methoxycarbonyl)-2,2-dimethylpropyl ester, [1R-[1.alpha.(S*),1(E),2.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



RN 153062-73-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-1-[(1E)-2-phenylethenyl]-, methyl ester, (1S,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



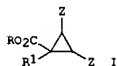
RN 153062-75-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-1-(2-phenylethenyl)-, 2-(dimethylamino)-1-methyl-2-oxoethyl ester, [1R-[1.alpha.(S*),1(E),2.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

L7 ANSWER 36 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1994:269715 CAPLUS
DOCUMENT NUMBER: 120:269715
TITLE: Preparation of optically active diphosphinocyclopropanecarboxylic acid derivatives as asymmetric allylation catalysts
INVENTOR(S): Minami, Susumu
PATENT ASSIGNEE(S): Nissan Chemical Ind Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JK00AF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

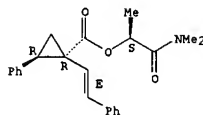
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05306291	A2	19931119	JP 1992-106257	19920424

OTHER SOURCE(S): CASREACT 120:269715; MARPAT 120:269715
GI



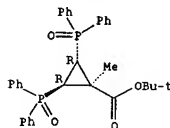
AB The title derivs. I [R = H, C1-6 alkyl; R1, R2 = H, C1-6 alkyl, (C1-4 alkyl- or alkoxy-substituted) Ph; Z = PR22, P(O)R22] are prepd.
Prepn. of optically active compds. in the presence of I and transition metal compds. or Pd compds. is also claimed. Refluxing a mixt. of Me3C (-)-trans-2,3-bis(diphenylphosphino)-1-methyl-1-cyclopropanecarboxylate [prepd. from Me3C .alpha.-chloropropionate and trans-1,2-bis(diphenylphosphinyl)ethene in 3 steps] and p-MeC6H4SO3H in C6H6 for 2 h gave 71% (-)-trans-2,3-bis(diphenylphosphino)-1-methyl-1-cyclopropanecarboxylic acid (II). A suspension of Pd acetate and II in THF was mixed with 2-cyclohexenyl acetate, then treated with a soln. of Na 1-menthyl diethylphosphonoacetate in THF at 65.degree. for 5 h to give 100% 1-menthyl (2-cyclohexenyl)diethylphosphonoacetate of 61% e.e.
IT 141540-17-2P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. and optical resolu. of)
RN 141540-17-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2,3-bis(diphenylphosphino)-1-methyl-, 1,1-dimethylethyl ester, (1.alpha.,2.alpha.,3.beta.)-(-) (9CI) (CA INDEX NAME)

L7 ANSWER 35 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



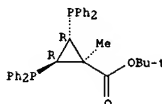
L7 ANSWER 36 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
NAME)

Relative stereochemistry.



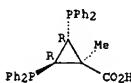
IT 141540-18-3P 141540-19-4P 141610-79-9P
141610-80-2P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, as asym. allylation catalyst)
RN 141540-18-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2,3-bis(diphenylphosphino)-1-methyl-, 1,1-dimethylethyl ester, (1.alpha.,2.alpha.,3.beta.)-(-) (9CI) (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.



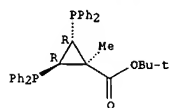
RN 141540-19-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,3-bis(diphenylphosphino)-1-methyl-, (1.alpha.,2.alpha.,3.beta.)-(-) (9CI) (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.



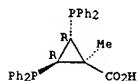
RN 141610-79-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2,3-bis(diphenylphosphino)-1-methyl-, 1,1-dimethylethyl ester, (1.alpha.,2.alpha.,3.beta.)-(+) (9CI) (CA INDEX NAME)

L7 ANSWER 36 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
Rotation (+). Absolute stereochemistry unknown.



RN 141610-80-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2,3-bis(diphenylphosphino)-1-methyl-, (1.alpha.,2.alpha.,3.beta.)-(+)- (9CI) (CA INDEX NAME)

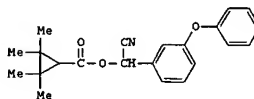
Rotation (+). Absolute stereochemistry unknown.



L7 ANSWER 37 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1994:163677 CAPLUS
DOCUMENT NUMBER: 120:163677
TITLE: Preparation of fenprothrin
INVENTOR(S): Zheng, Zhuo; Chen, Huilin; Li, Wuchong; et al.
PATENT ASSIGNEE(S): Dalian Institute of Chemico-physics, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 9 pp.
DOCUMENT TYPE: CODEN: CNOXEV
LANGUAGE: Patent
FAMILY ACC. NUM. COUNT: 1 Chinese
PATENT INFORMATION:

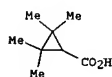
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1070186	A	19930324	CN 1991-106222	19910830

OTHER SOURCE(S): CASREACT 120:163677; MARPAT 120:163677
GI

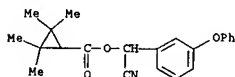


AB The title compd. (I) is prepd. from 2,2,3,3-tetramethylcyclopropanecarboxylic acid via reaction of 2,2,3,3-tetramethylcyclopropanecarbonyl chloride with m-phenoxybenzaldehyde and NaCN in the presence of a phase-transfer catalyst of the formula Cm-(OCH2CHR)nOH [Cm = fatty alkyl radical with 20-30 carbon atoms; n = 3-15; R = H, Me]. E.g., 2,2,3,3-tetramethylcyclopropanecarbonyl chloride (prepd. from 2,2,3,3-tetramethylcyclopropanecarboxylic acid and SOCl2) in xylene contg. R(OCH2CHMe)9OH (R = C22-23 fatty alkyl) (prepd. from C22-23 fatty alc. and 8 equiv 1,2-epoxypropane) was treated with m-phenoxybenzaldehyde and NaCN for 3-5.5 h to give I.
IT 15641-58-4, 2,2,3,3-Tetramethylcyclopropanecarboxylic acid
RL: PROC (Process)
(conversion of, into acid chloride)
RN 15641-58-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl-, (6CI, 8CI, 9CI) (CA INDEX NAME)

L7 ANSWER 37 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



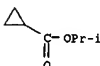
IT 39515-41-8P, Fenprothrin
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, from tetramethylcyclopropanecarboxylic acid)
RN 39515-41-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl-, cyano(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



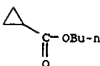
L7 ANSWER 38 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1994:76650 CAPLUS
DOCUMENT NUMBER: 120:76650
TITLE: Mild, one-pot conversion of carboxylic acids into esters using phase transfer catalysis
AUTHOR(S): Puntambekar, Hemalata M.; Naik, D. G.; Kapadi, A. H.
CORPORATE SOURCE: Res. Inst., MACS, Pune, 411 004, India
SOURCE: Indian J. Chem., Sect. B (1993), 32B(7), 793-4
CODEN: IJSEDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 120:76650
AB Aliph. satd. and unsatd. acids, benzylic acids, and arom. acids in benzene were esterified by treatment with alkyl halides in the presence of an aq. soln. of K2CO3 and Bu4NBr as phase-transfer catalyst.
IT 1759-53-1, Cyclopropanecarboxylic acid
RL: RCT (Reactant)
(esterification of, using one-pot procedure under phase transfer catalysis)
RN 1759-53-1 CAPLUS
CN Cyclopropanecarboxylic acid (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



IT 6887-83-8P, Isopropyl cyclopropanecarboxylate 54947-39-6P, Butyl cyclopropanecarboxylate
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, one-pot esterification procedure for)
RN 6887-83-8 CAPLUS
CN Cyclopropanecarboxylic acid, 1-methylethyl ester (9CI) (CA INDEX NAME)



RN 54947-39-6 CAPLUS
CN Cyclopropanecarboxylic acid, butyl ester (9CI) (CA INDEX NAME)

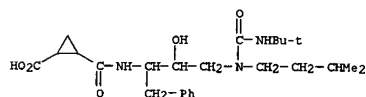


L7 ANSWER 39 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1993:603856 CAPLUS
 DOCUMENT NUMBER: 119:203856
 TITLE: Retroviral protease inhibitors
 INVENTOR(S): Bertenshaw, Deborah Elizabeth; Freskos, John Nicholas;
 Getman, Daniel Paul; Heintz, Robert Martin; Lin, Ko
 Chung; Rogier, Donald Joseph, Jr.; Talley, John Jeffrey
 PATENT ASSIGNEE(S): Monsanto Co., USA
 SOURCE: PCT Int. Appl., 199 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 10
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9208688	A1	19920529	WO 1991-Us8617	19911118
W: AU, CA, CS, FI, HU, JP, KR, NO, PL, SU, US				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN,				
	GR, IT, LU, ML, MR, NL, SE, SN, TD, TG			
CA 2096525	AA	19920520	CA 1991-2096525	19911118
AU 9190531	A1	19920611	AU 1991-90531	19911118
EP 558603	A1	19930908	EP 1992-900449	19911118
EP 558603	B1	19980826		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 06502860	T2	19940331	JP 1992-501068	19911118
EP 731088	A2	19960911	EP 1996-107359	19911118
EP 731088	A3	19970514		
EP 731088	B1	20001004		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
EP 735019	A2	19961002	EP 1996-107357	19911118
EP 735019	A3	19970514		
EP 735019	B1	20000920		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
EP 813867	A2	19971229	EP 1997-105350	19911118
EP 813867	A3	19980401		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
EP 813868	A2	19971229	EP 1997-105352	19911118
EP 813868	A3	19980318		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
EP 815856	A2	19980107	EP 1997-105351	19911118
EP 815856	A3	19980318		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
AT 164839	E	19980415	AT 1992-901068	19911118
ES 2059295	T3	19980601	ES 1992-901068	19911118
AT 170169	E	19980915	AT 1992-900449	19911118
ES 2059293	T3	19981216	ES 1992-900449	19911118
ZA 9109163	A	19930519	ZA 1991-9163	19911119
ZA 9109164	A	19930519	ZA 1991-9164	19911119
ZA 9109160	A	19930819	ZA 1991-9160	19911119
ZA 9109161	A	19930819	ZA 1991-9161	19911119
ZA 9109162	A	19930819	ZA 1991-9162	19911119

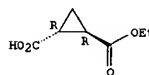
L7 ANSWER 39 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 US 5475027 A 19951212 US 1993-148817 19931108
 US 5510378 A 19960423 US 1995-449974 19950525
 US 5510487 A 19960423 US 1995-452603 19950525
 US 5602175 A 19970211 US 1995-450606 19950525
 US 5648511 A 19970715 US 1995-452187 19950525
 US 5703076 A 19971230 US 1995-449966 19950525
 US 5708004 A 19980113 US 1995-450605 19950525
 US 5510349 A 19960423 US 1995-471898 19950607
 US 5610190 A 19970311 US 1995-476009 19950607
 US 5614522 A 19970325 US 1995-506213 19950724
 US 5872298 A 19990216 US 1997-833737 19970409
 US 5872299 A 19990216 US 1997-854133 19970508
 PRIORITY APPLN. INFO.:
 US 1990-615210 A2 19901119
 US 1991-789643 A 19911114
 US 1991-789644 B2 19911114
 US 1991-789645 B2 19911114
 US 1991-789646 B2 19911114
 EP 1992-901068 A3 19911118
 EP 1992-901691 A3 19911118
 WO 1991-US8617 A 19911118
 US 1992-886547 B1 19920520
 US 1992-886556 B1 19920520
 US 1992-886558 B2 19920520
 US 1992-886663 B3 19920520
 US 1993-148817 A3 19931108
 US 1993-152934 A3 19931115
 US 1993-156498 B3 19931123
 US 1995-452187 A1 19950525
 OTHER SOURCE(S): MARPAT 119:203856
 AB Urea-contg. hydroxyethylamine protease inhibitor compds.
 RR1NCH2CH(OH)CH2NR3C(Z)NR4R5 (R = H, acyl; R1, R4 = H, alkyl; R2 = alkyl, aryl, cycloalkyl, cycloalkylalkyl, aralkyl; R3 = alkyl, alkenyl, hydroxyalkyl, cycloalkyl, cycloalkylalkyl, heterocycloalkyl, heterocycloalkylalkyl, aryl, aralkyl, heteroaralkyl; R5 = alkyl; Z = O, S)
 were prepd., particularly as HIV inhibitors. Thus, 2,2-dimethyl-3-(4-pyridyl)propionic acid underwent Curtius rearrangement with diphenylphosphoryl azide and Et3N in toluene and the product was treated with
 3(S)-[[N-(2-quinolinylcarbonyl)-L-asparaginy]amino]-2(R)-hydroxy-4-phenyl-N-[(4-fluorophenyl)methyl]butylamine [2-C9H6NCO-Asn-NHCH(CH2Ph)CH(OH)CH2NRCH2C6H4F-p (I, 2-C9H6N = 2-quinolinyl, R = H)]
 to afford I [R = {[1,1-dimethyl-2-(4-pyridyl)ethyl]amino}carbonyl].
 This compd. showed HIV protease inhibitory activity as follows: IC50 = 4 nM and ED50 = 37 nM.
 IT 143225-20-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and amidation of)
 RN 143225-20-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-[[[3-[[[1,1-dimethylethyl]amino]carbonyl] (

L7 ANSWER 39 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]carbonyl]- (9CI) (CA INDEX NAME)

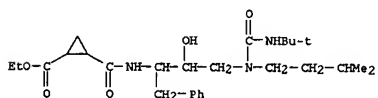


IT 31420-66-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and amidation of, with isoamylamine deriv.)
 RN 31420-66-3 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, monoethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

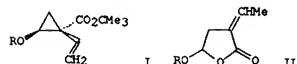
Relative stereochemistry.



IT 143244-74-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and sapon. of)
 RN 143244-74-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-[[[3-[[[1,1-dimethylethyl]amino]carbonyl] (3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)

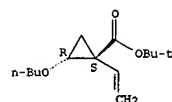


L7 ANSWER 40 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1992:48236 CAPLUS
 DOCUMENT NUMBER: 117:48236
 TITLE: Ring expansion of tert-butyl
 1-vinylcyclopropane-1-
 carboxylates to .alpha.-ethylidenebutyrolactones
 AUTHOR(S): Davies, Huw M. L.; Hu, Baihua
 CORPORATE SOURCE: Dep. Chem., Wake For. Univ., Winston-Salem, NC,
 27109,
 USA
 SOURCE: J. Org. Chem. (1992), 57(15), 4309-12
 CODEN: JOCEAH; ISSN: 0022-3263
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



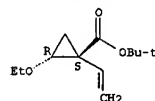
AB Thermolysis of tert-Bu 2-alkoxy-1-vinylcyclopropane-1-carboxylates,
 0.9.,
 I (R = Et, Bu), resulted in the formation of .alpha.-
 ethylidenebutyrolactones, e.g. II. Similar transformations could be
 achieved using boron tribromide as catalyst. Alternatively,
 reactions induced by VOCl2(OEt) resulted in dimeric or chlorinated
 .alpha.-ethylidene butyrolactones. The tert-Bu ester is necessary
 for these transformations as ring expansion involving the ester carbonyl
 was not obsd. with Me 2-ethoxy-1-vinylcyclopropane-1-carboxylate.
 tert-Bu
 2-phenyl-1-vinylcyclopropane-1-carboxylate underwent these
 transformations
 slowly, demonstrating that facile reactions occurred only when strong
 donor-acceptor substituents were present.
 IT 139955-05-8P 142038-40-2P 142038-48-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and ring expansion of, butyrolactone from)
 RN 139955-05-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-butoxy-1-ethenyl-, 1,1-dimethylethyl
 ester,
 trans- (9CI) (CA INDEX NAME)
 Relative stereochemistry.

L7 ANSWER 40 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



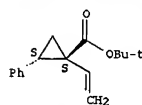
RN 142038-40-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-ethenyl-2-ethoxy-, 1,1-dimethylethyl
 ester,
 trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



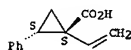
RN 142038-48-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-ethenyl-2-phenyl-, 1,1-dimethylethyl
 ester,
 trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



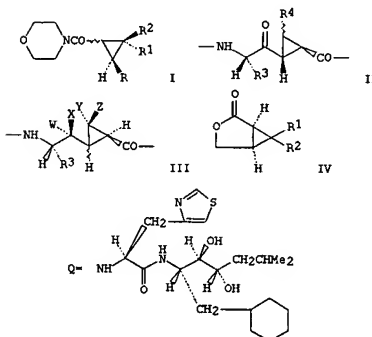
IT 142038-55-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 142038-55-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-ethenyl-2-phenyl-, trans- (9CI) (CA
 INDEX NAME)

Relative stereochemistry.



L7 ANSWER 40 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

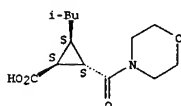
L7 ANSWER 41 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1992:256002 CAPLUS
 DOCUMENT NUMBER: 116:256002
 TITLE: 1,2,3-Trisubstituted cyclopropanes as
 conformationally
 restricted peptide isosteres: application to the
 design and synthesis of novel renin inhibitors
 AUTHOR(S): Martin, Stephen F.; Austin, Richard E.; Oalmann,
 Christopher J.; Baker, William R.; Condon,
 Stephen L.;
 CORPORATE SOURCE: Delars, Ed; Rosenberg, Saul H.; Spina, Kenneth P.;
 Stein, Herman H.; et al.
 Dep. Chem. Biochem., Univ. Texas, Austin, TX,
 78712,
 USA
 SOURCE: J. Med. Chem. (1992), 35(10), 1710-21
 CODEN: JMCMAR; ISSN: 0022-2623
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB The 1,2,3-trisubstituted cyclopropanes I (R = CO2H; R1 = H, R2 = Et,
 CH2CHMe2, Ph, PhCH2; R3 = Et, CH2CHMe2, Ph, CH2Ph, R4 = H) are as the
 first members of a novel class of isosteric replacements for peptide
 linkages that are more generally represented by the dipeptide mimics
 II
 and III (R3, R4 = H, alkyl, aryl, hetaryl; W, X = H, OH, O; Y, Z = H,
 R4).

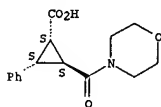
L7 ANSWER 41 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 These unique peptide surrogates are specifically designed to lock a section of a peptide backbone in an extended .beta.-strand conformation (vphi.-angle restriction) while simultaneously enforcing one of two specifically defined orientations for the amino acid side chain (.chi.1.-angle restriction). Methods were first developed for the stereoselective, asym. synthesis of the trisubstituted cyclopropanes I (R = CO₂H) by an efficient approach featuring chiral rhodium complexes to catalyze the cyclization of the allylic diazoacetates (2)-RCH:CHCH₂O₂CCHN₂ to give the optically active lactones IV in up to .gtoreq.94% enantiomeric excess. Nucleophilic opening of the lactone ring of IV gave the corresponding morpholine amides I (R = CH₂OH). By exploiting tactics that allowed for selective epimerization of one of the two functionalized side chains on the cyclopropane nucleus, I (R = CH₂OH) were transformed into the two series of diastereoisomeric morpholine amides I (R = CO₂H). Epimerization of the morpholine amide group followed by Jones oxidn. of the intermediate alcs. gave acids I (R₁ = H). Alternatively, initial oxidn. of the primary alc. groups followed by selective, base-catalyzed inversion .alpha. to the aldehyde function and then Jones oxidn. gave the diastereomeric dicarboxylic acid derivs. I (R₂ = H). To evaluate the efficacy of 1,2,3-trisubstituted cyclopropanes as rigid replacements of .beta.-strand secondary structure in pseudopeptide ligands, I (R = CO₂H) were incorporated at the P3 subsite of the potential renin inhibitors I (R = CO-Q) by coupling with the corresponding tripeptide Q-H. A significant no. of these substances inhibited renin at nanomolar concns. On the basis of this preliminary test, 1,2,3-trisubstituted cyclopropanes do appear to constitute a viable new class of peptide mimics. Since the stereochem. at each carbon on the cyclopropane ring may be altered, these novel replacements may also function as stereochem. probes to establish the conformation of pseudopeptide ligands bound to their macromol. targets.
 IT 42842-79-5P 140926-07-4P 141042-64-0P
 141042-65-1P 141042-66-2P 141042-67-3P
 141042-68-4P 141042-69-5P 141042-70-8P
 141042-71-9P 141042-72-0P 141042-73-1P
 141042-74-2P 141042-75-3P 141042-76-4P
 141042-77-5P 141042-78-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and amidation of, with tripeptide analog, renin inhibitor from)

L7 ANSWER 41 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



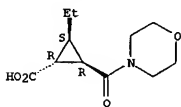
RN 141042-66-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(4-morpholinylcarbonyl)-3-phenyl-, [1S-(1.alpha.,2.beta.,3.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



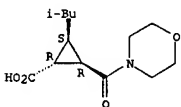
RN 141042-67-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-ethyl-3-(4-morpholinylcarbonyl)-, [1R-(1.alpha.,2.beta.,3.beta.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



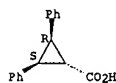
RN 141042-68-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(2-methylpropyl)-3-(4-morpholinylcarbonyl)-, [1R-(1.alpha.,2.beta.,3.beta.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



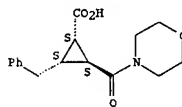
L7 ANSWER 41 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RN 42842-79-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,3-diphenyl-, [1.alpha.,2.beta.,3.beta.)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



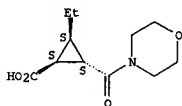
RN 140926-07-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(4-morpholinylcarbonyl)-3-(phenylmethyl)-, [1S-(1.alpha.,2.beta.,3.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 141042-64-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-ethyl-3-(4-morpholinylcarbonyl)-, [1S-(1.alpha.,2.alpha.,3.beta.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

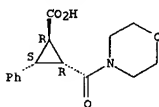


RN 141042-65-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(2-methylpropyl)-3-(4-morpholinylcarbonyl)-, [1S-(1.alpha.,2.alpha.,3.beta.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

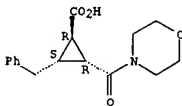
L7 ANSWER 41 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RN 141042-69-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(4-morpholinylcarbonyl)-3-phenyl-, [1R-(1.alpha.,2.beta.,3.beta.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



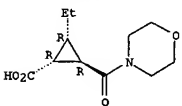
RN 141042-70-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(4-morpholinylcarbonyl)-3-(phenylmethyl)-, [1R-(1.alpha.,2.beta.,3.beta.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 141042-71-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-ethyl-3-(4-morpholinylcarbonyl)-, [1R-(1.alpha.,2.alpha.,3.beta.)]- (9CI) (CA INDEX NAME)

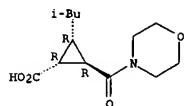
Absolute stereochemistry.



RN 141042-72-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(2-methylpropyl)-3-(4-morpholinylcarbonyl)-, [1R-(1.alpha.,2.alpha.,3.beta.)]- (9CI) (CA INDEX NAME)

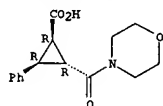
Absolute stereochemistry.

L7 ANSWER 41 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



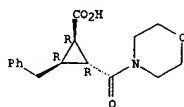
RN 141042-73-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(4-morpholinylcarbonyl)-3-phenyl-, [1R-(1.alpha.,2.beta.,3.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



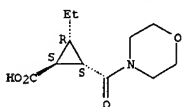
RN 141042-74-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(4-morpholinylcarbonyl)-3-(phenylmethyl)-, [1R-(1.alpha.,2.beta.,3.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

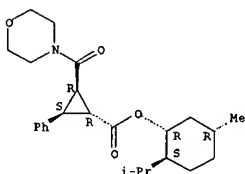


RN 141042-75-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-ethyl-3-(4-morpholinylcarbonyl)-, [1S-(1.alpha.,2.beta.,3.beta.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



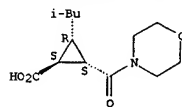
L7 ANSWER 41 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



L7 ANSWER 41 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

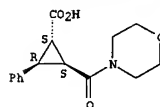
RN 141042-76-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(2-methylpropyl)-3-(4-morpholinylcarbonyl)-, [1S-(1.alpha.,2.beta.,3.beta.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



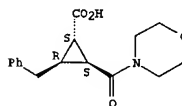
RN 141042-77-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(4-morpholinylcarbonyl)-3-phenyl-, [1S-(1.alpha.,2.beta.,3.beta.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 141042-78-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(4-morpholinylcarbonyl)-3-(phenylmethyl)-, [1S-(1.alpha.,2.beta.,3.beta.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 135588-56-6P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
RN 135588-56-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(4-morpholinylcarbonyl)-3-phenyl-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, [1R-(1.alpha.,(1R*,2R*,3S*),2.beta.,5.alpha.)]- (9CI) (CA INDEX NAME)

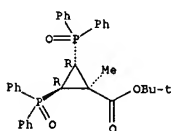
Absolute stereochemistry.

L7 ANSWER 42 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1992:255709 CAPLUS
DOCUMENT NUMBER: 116:255709
TITLE: A novel type of chiral diphosphine ligand, trans-2,3-bis(diphenylphosphino)-1-methyl-1-cyclopropanecarboxylic acid and asymmetric allylic alkylation by the use of its palladium complex
AUTHOR(S): Okada, Yoshiharu; Minami, Toru; Yamamoto, Tsutomu; Ichikawa, Junji
CORPORATE SOURCE: Dep. Appl. Chem., Kyushu Inst. Technol., Kitakyushu, 804, Japan
SOURCE: Chem. Lett. (1992), (4), 547-50
CODEN: CMLTAG; ISSN: 0366-7022
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 116:255709
AB Optically active trans-2,3-bis(diphenylphosphino)-1-methyl-1-cyclopropanecarboxylic acid was synthesized from trans-1,2-bis(diphenylphosphino)ethene via resolin. of the racemic diphosphine oxide. Asym. allylic alkylation of 2-cyclohexenyl acetate with 1-methylsodiiodiethylphosphonoacetate was achieved in good optical yields by the use of its palladium complex.
IT 141660-66-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and hydrolysis of)
RN 141660-66-4 CAPLUS
CN Butanedioic acid, 2,3-bis(benzoyloxy)-, [S-(R*,R*)]-, compd. with (1.alpha.,2.alpha.,3.beta.)-(-)-1,1-dimethylethyl 2,3-bis(diphenylphosphino)-1-methylcyclopropanecarboxylate (1:1) (9CI) (CA INDEX NAME)

CH 1

CRN 141610-77-7
CMF C33 H34 O4 P2
CDES *

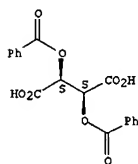
Rotation (-). Absolute stereochemistry unknown.



CH 2

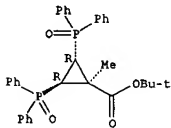
L7 ANSWER 42 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 CRN 17026-42-5
 CMP C18 H14 O8

Absolute stereochemistry. Rotation (+).



IT 141610-77-7P 141610-78-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and redn. of)
 RN 141610-77-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,3-bis(diphenylphosphinyl)-1-methyl-,
 1,1-dimethylethyl ester, (1.alpha.,2.alpha.,3.beta.)-(+)- (9CI) (CA
 INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.

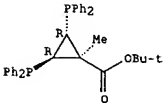


RN 141610-78-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,3-bis(diphenylphosphinyl)-1-methyl-,
 1,1-dimethylethyl ester, (1.alpha.,2.alpha.,3.beta.)-(+)- (9CI) (CA
 INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.

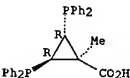
L7 ANSWER 42 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 NAME)

Rotation (+). Absolute stereochemistry unknown.



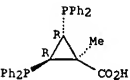
IT 141540-19-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of and catalytic activity with palladium acetate, for
 asym. allylic alkylation)
 RN 141540-19-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,3-bis(diphenylphosphino)-1-methyl-,
 (1.alpha.,2.alpha.,3.beta.)-(+)- (9CI) (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.

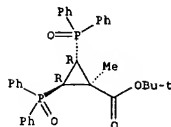


IT 141610-80-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of and catalytic activity with palladium, for asym.
 allylic alkylation)
 RN 141610-80-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,3-bis(diphenylphosphino)-1-methyl-,
 (1.alpha.,2.alpha.,3.beta.)-(+)- (9CI) (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.

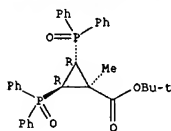


L7 ANSWER 42 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



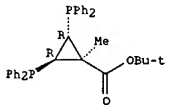
IT 141540-17-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and resolu. of)
 RN 141540-17-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,3-bis(diphenylphosphinyl)-1-methyl-,
 1,1-dimethylethyl ester, (1.alpha.,2.alpha.,3.beta.)-(+)- (9CI) (CA INDEX
 NAME)

Relative stereochemistry.



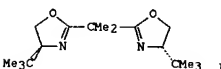
IT 141540-18-3P 141610-79-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and sapon. of)
 RN 141540-18-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,3-bis(diphenylphosphino)-1-methyl-,
 1,1-dimethylethyl ester, (1.alpha.,2.alpha.,3.beta.)-(+)- (9CI) (CA
 INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.



RN 141610-79-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,3-bis(diphenylphosphino)-1-methyl-,
 1,1-dimethylethyl ester, (1.alpha.,2.alpha.,3.beta.)-(+)- (9CI) (CA
 INDEX NAME)

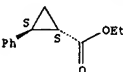
L7 ANSWER 43 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1992:235109 CAPLUS
 DOCUMENT NUMBER: 116:235109
 TITLE: Bis(oxazolines) as ligands for self-organizing
 chiral coordination polymers. Structure of copper(I)
 catalysts
 for enantioselective cyclopropanation of olefins
 Evans, David A.; Woerpel, Keith A.; Scott,
 Michael J.
 CORPORATION SOURCE: Dep. Chem., Harvard Univ., Cambridge, MA, 02138,
 USA
 SOURCE: Angew. Chem. (1992), 104(4), 439-41 (See also
 Angew. Chem., Int. Ed. Engl., 1992, 31(4), 430-2)
 CODEN: ANCEAD; ISSN: 0044-8249
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GI



AB The crystal structure of the complexation product of Cu triflate with
 bis(oxazoline) I was studied, and the soln. structure of the complex
 was examd. by spectral methods. The Cu-I complex exists as a coordination
 polymer and can catalyze the enantioselective cyclopropanation of
 styrene by N2CHCO2Et.

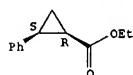
IT 34702-96-0P 34702-97-1P 34716-60-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and sapon. of)
 RN 34702-96-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1R,2S)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



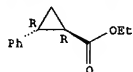
RN 34702-97-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1R,2S)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



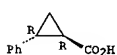
RN 34716-60-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1R,2R)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



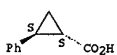
IT 3471-10-1P 23020-15-7P 48126-51-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(Prepn. of)
RN 3471-10-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 23020-15-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1S,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

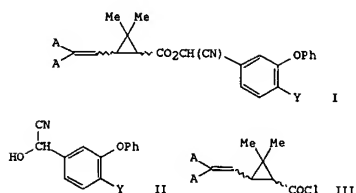


RN 48126-51-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2S)- (9CI) (CA INDEX NAME)

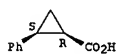
L7 ANSWER 44 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1992:214743 CAPLUS
DOCUMENT NUMBER: 116:214743
TITLE: Process for the preparation of pyrethroid derivatives
INVENTOR(S): Botar, Sándor; Székely, István; Bertók, Béla; Hajmichael, Antal; Hidasi, György; Zoltan, Sándor
PATENT ASSIGNEE(S): Janis, Rapi, András; Lindwurm, Ferenc; et al. Chinoín Gyógyszert és Vegyszertéi Termékek Gyára Rt., Hung.
SOURCE: PCT Int. Appl., 22 pp.
DOCUMENT TYPE: CODEN: FIKX02
LANGUAGE: Patent
FAMILY ACC. NUM. COUNT: English
PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9202492	A1	19920220	WO 1990-HU53	19900727
GB 2251621	A1	19920715	GB 1992-5920	19920318
GB 2251621	B2	19940406		

PRIORITY APPLN. INFO.: WO 1990-HU53 19900727
OTHER SOURCE(S): MARPAT 116:214743
GI

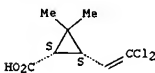


AB The invention relates to the prepn. of pyrethroid derivs. of high purity suitable for controlled crystn. Pyrethroids of general formula I (A = Cl, Br, Me, Y = H, F, Cl; wavy line means R resp. S configuration) are obtained by acylation of cyanohydrins II with acid chlorides III. II are



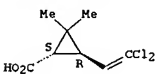
L7 ANSWER 44 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
prepd. from 3-PhO-4-YC6H3CHO by reaction of alkali cyanide in water using an amine as catalyst, whereby benzaldehyde is added to 7-9% aq. alkali cyanide in the presence of 0.15-0.25 mol equivs. of amine. The cyanohydrin formed in the reaction mixt. is acylated in statu nascens parallel to the formation of cyanohydrin with an acid chloride and the cypermethrin emulsion obtained is extd. with an apolar solvent.
IT 59042-49-8, cis-3-(2,2-Dichloroethenyl)-2,2-dimethylcyclopropanecarboxylic acid 59042-50-1
63538-10-3 63597-73-9
RL: RCT (Reactant)
(chlorination and acylation by, of phenoxybenzaldehyde derivs.)
RN 59042-49-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



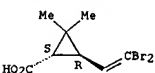
RN 59042-50-1 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (1R,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



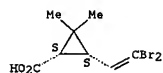
RN 63538-10-3 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 63597-73-9 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, (1R,3R)-rel- (9CI) (CA INDEX NAME)

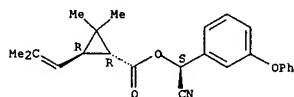
Relative stereochemistry.



IT 64312-65-8P 64312-66-9P 64312-68-1P
 64312-69-2P 65731-83-1P 65731-84-2P
 65732-07-2P 66841-24-5P 72204-43-4P
 72204-44-5P 83860-31-5P 83860-32-6P
 141041-32-9P 141041-33-0P 141041-34-1P
 141041-35-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (high-yield one-pot prepn. of)

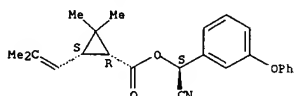
RN 64312-65-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 (S)-cyano(3-phenoxyphenyl)methyl ester, (1R,3R)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



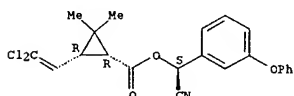
RN 64312-66-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 cyano(3-phenoxyphenyl)methyl ester, [1R-[1.alpha.(S*),3.alpha.]]-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



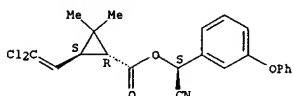
RN 64312-68-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 cyano(3-phenoxyphenyl)methyl ester, [1R-[1.alpha.(R*),3.beta.]]-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



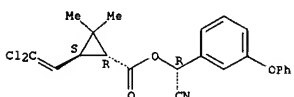
RN 65732-07-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
 (S)-cyano(3-phenoxyphenyl)methyl ester, (1R,3S)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



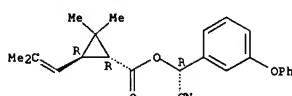
RN 66841-24-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
 (R)-cyano(3-phenoxyphenyl)methyl ester, (1R,3S)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



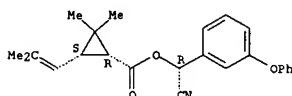
RN 72204-43-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
 (S)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



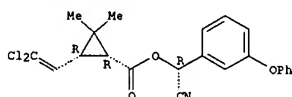
RN 64312-69-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 cyano(3-phenoxyphenyl)methyl ester, [1R-[1.alpha.(R*),3.alpha.]]-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



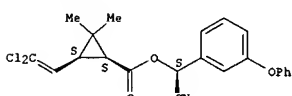
RN 65731-83-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
 (R)-cyano(3-phenoxyphenyl)methyl ester, (1R,3R)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



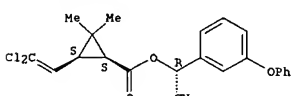
RN 65731-84-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
 (S)-cyano(3-phenoxyphenyl)methyl ester, (1R,3R)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry. Rotation (+).



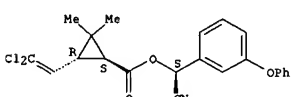
RN 72204-44-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
 (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



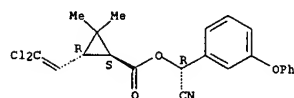
RN 83860-31-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
 (S)-cyano(3-phenoxyphenyl)methyl ester, (1S,3R)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



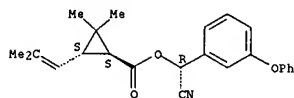
RN 83860-32-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
 (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3R)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



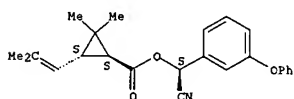
RN 141041-32-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, cyano(3-phenoxyphenyl)methyl ester, [1S-[1.alpha.(S*),3.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 141041-33-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (S)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)- (9CI) (CA INDEX NAME)

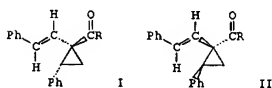
Absolute stereochemistry.



RN 141041-34-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, cyano(3-phenoxyphenyl)methyl ester, [1S-[1.alpha.(R*),3.alpha.]]- (9CI) (CA INDEX NAME)

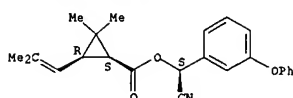
Absolute stereochemistry.

L7 ANSWER 45 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1992:83242 CAPLUS
DOCUMENT NUMBER: 116:83242
TITLE: .alpha.-Hydroxy esters as inexpensive chiral auxiliaries in rhodium(II)-catalyzed cyclopropanations
AUTHOR(S): with vinylidiazomethanes
CORPORATE SOURCE: Davies, Huw M. L.; Cantrell, William R., Jr. Dep. Chem., Wake Forest Univ., Winston-Salem, NC, 27109, USA
SOURCE: Tetrahedron Lett. (1991). 32(45), 6509-12
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 116:83242
GI



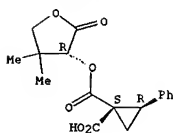
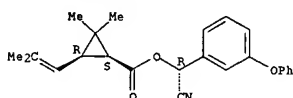
AB High levels of asym. induction were achieved in rhodium(II)-catalyzed cyclopropanations with chiral vinylidiazomethanes.
(R)-(-)-Pantolactone is the most effective chiral auxiliary, but other .alpha.-hydroxy esters also give reasonable levels of diastereoselectivity. Thus, reaction of trans-PhCH:CHC(N2)COR (R = chiral auxiliary) with styrene in the presence of Rh2L4 (L = O2OMe) in refluxing CH2Cl2 afforded cyclopropanes I and II (91% yield, 89% de).
IT 138770-18-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and Curtius rearrangement of)
RN 138770-18-0 CAPLUS
CN 1,1-Cyclopropanedicarboxylic acid, 2-phenyl-, mono[tetrahydro-4,4-dimethyl-2-oxo-3-furanyl] ester, [1S-[1.alpha.(S*),2.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



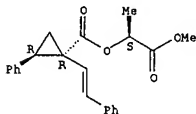
RN 141041-35-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, cyano(3-phenoxyphenyl)methyl ester, [1S-[1.alpha.(S*),3.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



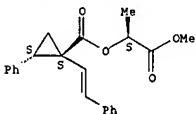
IT 138770-14-6P 138812-36-9P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. and conversion of, to Me ester)
RN 138770-14-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-1-(2-phenylethenyl)-, 2-methoxy-1-methyl-2-oxoethyl ester, [1R-[1.alpha.(S*),2.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



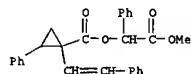
RN 138812-36-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-1-(2-phenylethenyl)-, 2-methoxy-1-methyl-2-oxoethyl ester, [1S-[1.alpha.(R*),2.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

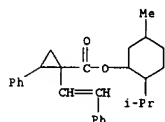


IT 138770-15-7P 138770-17-9P 138812-37-0P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

L7 ANSWER 45 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RN 138770-15-7 CAPLUS
 CN Benzeneacetic acid,
 .alpha.-[[[2-phenyl-1-(2-phenylethenyl)cyclopropyl]car
 bonyloxy]-, methyl ester (9CI) (CA INDEX NAME)

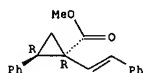


RN 138770-17-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-1-(2-phenylethenyl)-,
 5-methyl-2-(1-methylethyl)cyclohexyl ester (9CI) (CA INDEX NAME)



RN 138812-37-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-1-(2-phenylethenyl)-, methyl
 ester,
 (1R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



L7 ANSWER 46 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 are prepd. I may also be used to treat erosive gastritis,
 inflammatory bowel disease, prevention of SRA-release (no data). To a suspension
 of
 [(7-chloroquinolin-2-yl)methyl]triphenylphosphonium bromide in THF
 was
 added BuLi, the reaction mixt. was stirred at -78.degree. and Me
 2-[3-(2-(methoxycarbonyl)ethylthio)-3-(3-formylphenyl)propyl]benzoate
 [prepn. from 3-(BrCH2)C6H4CN given] added, the mixt. warmed to room
 temp.
 to give I [R1 = 7-Cl; Y = CH:CH; A = HO2C(CH2)2S; B =
 2-(HO2C)C6H4(CH2)2]
 (II) as the di-Me ester, which in THF and MeOH was sapond. to give
 II.2Na
 salt. A capsule, injectable suspension and tablet formulations
 comprising
 I are given. Pharmaceutical compn. of I may comprise an addnl.
 active
 ingredient such as nonsteroidal antiinflammatory drug, peripheral
 analgesic, cyclooxygenase inhibitor, etc.
 IT 133772-30-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and reaction of, on prepn. of leukotriene antagonists)
 RN 133772-30-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-(mercaptomethyl)-, ethyl ester (9CI)
 (CA
 INDEX NAME)

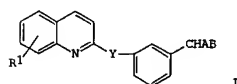


IT 133768-68-0P 133768-70-4P 133771-77-4P
 133771-79-6P
 RL: BAC (Biological activity or effector, except adverse); SPN
 (Synthetic
 preparation); THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (prepn. of, as leukotriene antagonist)
 RN 133768-68-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-[[[1-[3-(7-chloro-2-
 quinolinyl)methoxy]phenyl]-3-[2-[(dimethylamino)carbonyl]phenyl]propyl]thi
 o]methyl]- (9CI) (CA INDEX NAME)

L7 ANSWER 46 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1991:656016 CAPLUS
 DOCUMENT NUMBER: 115:256016
 TITLE: Preparation of diarylstyrylquinoline diacids as
 leukotriene antagonists
 INVENTOR(S): Young, Robert N.; Gauthier, Jacques Yves; Zamboni,
 Robert; Belley, Michel L.
 PATENT ASSIGNEE(S): Merck Frost Canada, Inc., Ivory Coast
 SOURCE: Eur. Pat. Appl., 144 pp.
 CODEN: EFXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

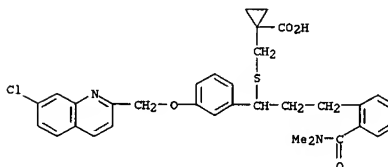
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 399818	A1	19901128	EP 1990-305640	19900523
EP 399818	B1	19950816		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
US 5104882	A	19920414	US 1990-527236	19900522
CA 2017376	AA	19901124	CA 1990-2017376	19900523
NO 9002301	A	19901126	NO 1990-2301	19900523
AU 9055811	A1	19901213	AU 1990-55811	19900523
ZA 9003983	A	19910327	ZA 1990-3983	19900523
JP 03072459	A2	19910327	JP 1990-132754	19900524
JP 07103107	B4	19951108		
US 5204358	A	19930420	US 1992-818598	19920109
PRIORITY APPLN. INFO.:			US 1989-356478	19890524
			US 1987-125050	19871125
			US 1988-275160	19881122
			US 1990-527236	19900522

OTHER SOURCE(S): MARPAT 115:256016
 GI

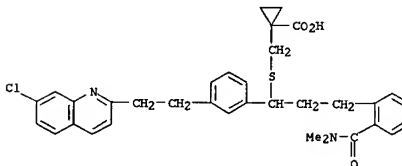


AB Title compds. I [R1 = 7-Cl, 7-MeO, 6-F3C, 7-F3C, 6-MeSO2, H, 6, 7-Cl2;
 Y =
 CH:CH, CH2CH2, CH2O, CHMeCH2; A = HO2C(CH2)2S, Me2NCO(CH2)2S,
 3-(HO2C)C6H4S, Me3CNHCO(CH2)2S, 4-carboxy-2-pyridyl, [(1-
 adamantylamino)carbonyl]ethylthio, 1-tetrazol-5-ylmethylthio, etc.; B
 =
 2-(HO2C)C6H4CH2CH2, 3-(HO2C)C6H4, 5-carboxy-2-thiophenyl,
 HO2CCH2CHMe(CH2)2, 6-carboxy-2-pyridyl, 2-(Me3CNHCO)C6H4S,
 3-[(1-tetrazol-5-yl)methyl]phenyl, etc.] and their salts, useful as
 inhibitors of leukotriene biosynthesis, antiasthmatic, antiallergic,
 antiinflammatory, and cytoprotective agents (no data, assays
 described),

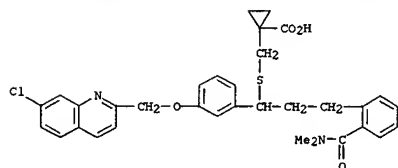
L7 ANSWER 46 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 133768-70-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-[[[1-[3-(7-chloro-2-
 quinolinyl)ethoxy]phenyl]-3-[2-[(dimethylamino)carbonyl]phenyl]propyl]thi
 o]methyl]- (9CI) (CA INDEX NAME)

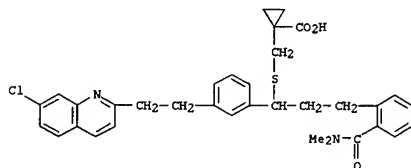


RN 133771-77-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-[[[1-[3-(7-chloro-2-
 quinolinyl)methoxy]phenyl]-3-[2-[(dimethylamino)carbonyl]phenyl]propyl]thi
 o]methyl]-, sodium salt (9CI) (CA INDEX NAME)

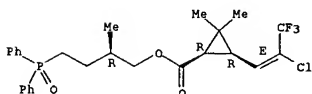


● Na

RN 133771-79-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-[[[1-[3-[2-(7-chloro-2-quinolinyl)ethyl]phenyl]-3-[(2-[(dimethylamino)carbonyl]phenyl]propyl]thio]methyl]-, sodium salt (9CI) (CA INDEX NAME)

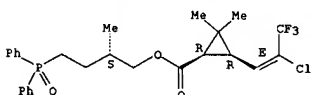


● Na



RN 136598-13-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-, 4-(diphenylphosphinyl)-2-methylbutyl ester, [1R-[1.alpha.(S*),3.alpha.(E)]]- (9CI) (CA INDEX NAME)

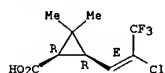
Absolute stereochemistry.
 Double bond geometry as shown.



L7 ANSWER 47 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1991:583446 CAPLUS
 DOCUMENT NUMBER: 115:183446
 TITLE: The stereochemistry of organometallic compounds. XXXVII. Regio- and stereocontrol in the rhodium-catalyzed hydroformylation of some alkenylphosphines
 AUTHOR(S): Jackson, W. Roy; Perlmuter, Patrick; Suh, Guem Hee;
 CORPORATE SOURCE: Tasdelen, E. Elizabeth
 SOURCE: Dep. Chem., Monash Univ., Clayton, 3168, Australia
 CODEN: AJCHAS; ISSN: 0004-9425
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 115:183446
 AB Good to excellent regiocontrol can be obtained for the internal product of rhodium-catalyzed hydroformylation of a range of alkenylphosphines. Thus, hydroformylation of CH₂:CHCH₂CH₂Ph₂ in the presence of tetrakis(acetato)dirhodium gave 100% HOCH₂CHMeCH₂CH₂Ph₂. Excellent stereo- as well as regiocontrol can also be obtained for reactions of some cyclic alkenylphosphines.

IT 87725-85-7
 RL: RCT (Reactant)
 (esterification by, of diphenylphosphorylmethylbutanol)
 RN 87725-85-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-, [1R-[1.alpha.,3.alpha.(E)]]- (9CI) (CA INDEX NAME)

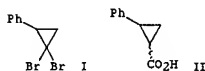
Absolute stereochemistry.
 Double bond geometry as shown.



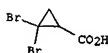
IT 136492-51-8P 136598-13-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 136492-51-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-, 4-(diphenylphosphinyl)-2-methylbutyl ester, [1R-[1.alpha.(R*),3.alpha.(E)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.

L7 ANSWER 48 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1991:514036 CAPLUS
 DOCUMENT NUMBER: 115:114036
 TITLE: Metal catalyzed carbonylation of gem-dibromocyclopropanes
 AUTHOR(S): Grushin, Vladimir V.; Alper, Howard
 CORPORATE SOURCE: Ottawa-Carleton Chem. Inst., Univ. Ottawa, Ottawa, ON,
 SOURCE: KIN 6N5, Can. Tetrahedron Lett. (1991), 32(28), 3349-52
 CODEN: TELEAV; ISSN: 0040-4039
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 115:114036
 GI



AB The first examples of the catalytic carbonylation of gem-dibromocyclopropanes is described, using cobalt and nickel salts as catalysts under phase transfer conditions. Thus, 1,1-dibromo-2-phenylcyclopropane (I) in PhMe was added to a mixt. of KOH, CoCl₂, Ni(CN)₂·2H₂O, KCN, and PEG-400 in PhMe that had been pretreated with CO-H₂ and the mixt. heated under CO-H₂ to give 72% a 1:1 mixt. of the cis- and trans-phenylcyclopropanecarboxylic acids II.
 IT 5365-17-3
 RL: RCT (Reactant)
 (cobalt-nickel-catalyzed phase transfer carbonylation of)
 RN 5365-17-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dibromo- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



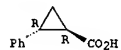
IT 939-89-9P 939-90-2P 5682-61-1P
 5861-31-4P 7150-12-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 939-89-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2S)-rel- (9CI) (CA INDEX NAME)

L7 ANSWER 48 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
Relative stereochemistry.



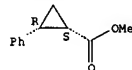
RN 939-90-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



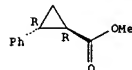
RN 5682-61-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, methyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



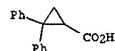
RN 5861-31-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, methyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

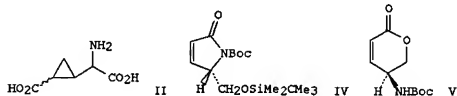


RN 7150-12-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-diphenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L7 ANSWER 48 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



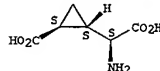
L7 ANSWER 49 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1991:450231 CAPLUS
DOCUMENT NUMBER: 115:50231
TITLE: Synthesis of four diastereomeric L-2-(carboxycyclopropyl)glycines. Conformationally constrained L-glutamate analogs
AUTHOR(S): Shimamoto, Keiko; Ishida, Michiko; Shinozaki, Haruhiko; Ohfune, Yasufumi
CORPORATE SOURCE: Suntory Inst. Bioorg. Res., Osaka, 618, Japan
SOURCE: J. Org. Chem. (1991), 56(13), 4167-76
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 115:50231
GI



AB To det. what conformations of L-glutamate (I) activate different receptors in the mammalian central nervous system, four diastereomeric L-2-(carboxycyclopropyl)glycines I-IV, which are conformationally constrained analogs of the extended and folded conformers of I, were synthesized and subjected to neurophysiol. assay. Compds. I-IV were efficiently synthesized from chiral amino acids. Cyclopropanation of (S)-H2C=CHCH(NHBoc)CH2OSiMe2Me3 (III; Boc = Me3CO2C) gave intermediates for the synthesis of all four diastereomers. Stereoselective cyclopropanation of both the .alpha.,.beta.-unsatd. .gamma.-lactam IV and the .delta.-lactone V gave precursors of (2S,1'S,2'R)-II and (2S,1'R,2'S)-II, resp. Neurophysiol. assays of L-II performed with the newborn rat spinal cord demonstrated that the compds. induced a variety of depolarizing effects. The results of the assays strongly suggested that the N-methyl-D-aspartic acid (NMDA) receptor is activated by the folded conformer of I and that the extended conformer of I activates the metabotropic receptor. The four analogous D-2-(carboxycyclopropyl)glycines D-II, prepd. from (R)-III, were NMDA agonists.
IT 117857-93-9P 117857-94-0P 117857-95-1P
117857-96-2P 125412-10-4P 125412-11-5P
125412-12-6P 125412-13-7P

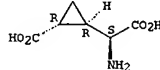
L7 ANSWER 49 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
RL: FRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and activity of, toward glutamate neurotransmitter receptors)
RN 117857-93-9 CAPLUS
CN Cyclopropanecarboxylic acid, .alpha.-amino-2-carboxy-, (.alpha.S,1S,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



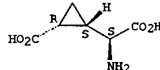
RN 117857-94-0 CAPLUS
CN Cyclopropanecarboxylic acid, .alpha.-amino-2-carboxy-, (.alpha.S,1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 117857-95-1 CAPLUS
CN Cyclopropanecarboxylic acid, .alpha.-amino-2-carboxy-, (.alpha.S,1S,2R)- (9CI) (CA INDEX NAME)

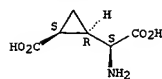
Absolute stereochemistry. Rotation (+).



RN 117857-96-2 CAPLUS
CN Cyclopropanecarboxylic acid, .alpha.-amino-2-carboxy-, (.alpha.S,1R,2S)- (9CI) (CA INDEX NAME)

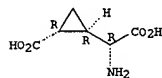
Absolute stereochemistry.

L7 ANSWER 49 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



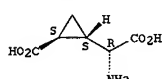
RN 125412-10-4 CAPLUS
CN Cyclopropanecarboxylic acid, .alpha.-amino-2-carboxy-, (.alpha.R,1R,2R)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



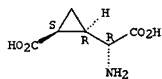
RN 125412-11-5 CAPLUS
CN Cyclopropanecarboxylic acid, .alpha.-amino-2-carboxy-, (.alpha.R,1S,2S)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 125412-12-6 CAPLUS
CN Cyclopropanecarboxylic acid, .alpha.-amino-2-carboxy-, (.alpha.R,1R,2S)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

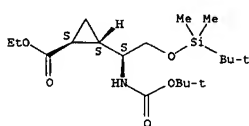


RN 125412-13-7 CAPLUS
CN Cyclopropanecarboxylic acid, .alpha.-amino-2-carboxy-, (.alpha.R,1S,2R)- (9CI)
(CA INDEX NAME)

L7 ANSWER 49 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

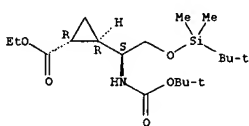
CN Cyclopropanecarboxylic acid, 2-[1-[[[(1,1-dimethylethoxy)carbonyl]amino]-2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethyl]-, ethyl ester, [1S-[1.alpha.,2.beta.(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



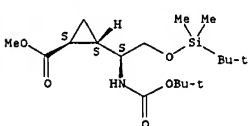
RN 124151-72-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[1-[[[(1,1-dimethylethoxy)carbonyl]amino]-2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethyl]-, ethyl ester, [1R-[1.alpha.,2.beta.(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



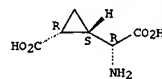
RN 134419-12-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[1-[[[(1,1-dimethylethoxy)carbonyl]amino]-2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethyl]-, methyl ester, [1S-[1.alpha.,2.beta.(R*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



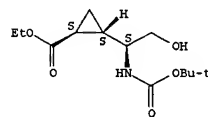
L7 ANSWER 49 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

Absolute stereochemistry.



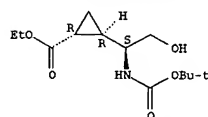
IT 117747-68-9P 117857-90-6P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. and sequential Jones oxidn. and deblocking of)
RN 117747-68-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[1-[[[(1,1-dimethylethoxy)carbonyl]amino]-2-hydroxyethyl]-, ethyl ester, [1S-[1.alpha.,2.beta.(R*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 117857-90-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[1-[[[(1,1-dimethylethoxy)carbonyl]amino]-2-hydroxyethyl]-, ethyl ester, [1R-[1.alpha.,2.beta.(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

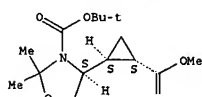


IT 124085-73-0P 124151-72-0P 134419-12-8P
134419-15-1P 134419-16-2P 134525-19-2P
134525-22-7P 134525-23-8P 134525-27-2P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
RN 124085-73-0 CAPLUS

L7 ANSWER 49 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

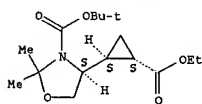
RN 134419-15-1 CAPLUS
CN 3-Oxazolidinonecarboxylic acid, 4-[2-(methoxycarbonyl)cyclopropyl]-2,2-dimethyl-, 1,1-dimethylethyl ester, [1S-[1.alpha.(R*),2.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



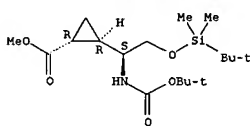
RN 134419-16-2 CAPLUS
CN 3-Oxazolidinonecarboxylic acid, 4-[2-(ethoxycarbonyl)cyclopropyl]-2,2-dimethyl-, 1,1-dimethylethyl ester, [1S-[1.alpha.(R*),2.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



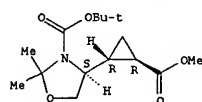
RN 134525-19-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[1-[[[(1,1-dimethylethoxy)carbonyl]amino]-2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethyl]-, methyl ester, [1R-[1.alpha.,2.beta.(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



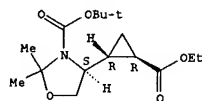
RN 134525-22-7 CAPLUS
CN 3-Oxazolidinonecarboxylic acid, 4-[2-(methoxycarbonyl)cyclopropyl]-2,2-dimethyl-, 1,1-dimethylethyl ester, [1R-[1.alpha.(S*),2.beta.]]- (9CI) (CA INDEX NAME)

L7 ANSWER 49 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
Absolute stereochemistry.



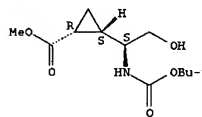
RN 134525-23-8 CAPLUS
CN 3-Oxazolidinonecarboxylic acid, 4-[2-(ethoxycarbonyl)cyclopropyl]-2,2-dimethyl-, 1,1-dimethylethyl ester, [1R-[1.alpha.(S*),2.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 134525-27-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[1-[[[(1,1-dimethylethoxy)carbonyl]amino]-2-hydroxyethyl]-, methyl ester, [1R-[1.alpha.,2.alpha.(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

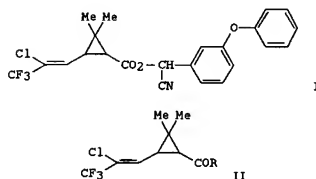


IT 117857-91-7P 117857-92-8P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn., lactonization, or Jones oxidn.-deblocking of)
RN 117857-91-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[1-[[[(1,1-dimethylethoxy)carbonyl]amino]-2-hydroxyethyl]-, ethyl ester, [1R-[1.alpha.,2.alpha.(S*)]]- (9CI) (CA INDEX NAME)

L7 ANSWER 50 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1991:449133 CAPLUS
DOCUMENT NUMBER: 115:49133
TITLE: Method for preparation of insecticidal and acaricidal
INVENTOR(S): .alpha.-cyano-3-phenoxybenzyl 3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate esters
Tichy, Milos; Zavada, Jiri; Stibor, Ivan; Votava, Vladimir; Vesely, Ivan; Dolansky, Vladimir;
Prosek, Zdenek; Smid, Ivan; Mostecky, Jiri
PATENT ASSIGNEE(S): Czech.
SOURCE: Czech., 5 pp.
CODEN: CZXXA9
DOCUMENT TYPE: Patent
LANGUAGE: Czech
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

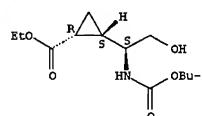
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CS 268475	B1	19900314	CS 1988-5707	19880819

GI



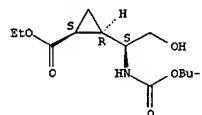
AB The racemic ester (I) and its optical or geometrical isomers, active
as insecticides and acaricides (no data), were prepd. by esterification
of the parent cyclopropanecarboxylate alkali metal salts (II; R = O-M+;
M = alkali metal), preferably with the cis-configuration on the cyclopropane
ring, with 3-PhOC6H4CH(CN)OSO2C6H4Me-4 (III) in a inert org. solvent
or in a solvent-H2O mixt., optionally in the presence of a quaternary
ammonium salt as phase-transfer catalyst at 20-80.degree.. Thus, 2 mL
MePh, 725 mg III, and 15 mg PhCH2N+Et3 Br- were added to a soln. of
510 mg

L7 ANSWER 49 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
Absolute stereochemistry.



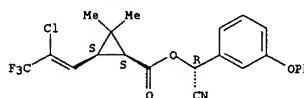
RN 117857-92-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[1-[[[(1,1-dimethylethoxy)carbonyl]amino]-2-hydroxyethyl]-, ethyl ester, [1S-[1.alpha.,2.alpha.(R*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



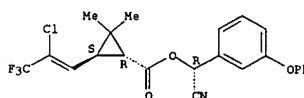
L7 ANSWER 50 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
racemic II (R = OH) in 1.1 mL 1.95N aq. NaOH and the mixt. was stirred
vigorously 6 h at 70.degree. to give 842 mg I as a yellowish oil
comprising an approx. equimolar diastereoisomeric mixt.
IT 72257-63-7 72257-64-8
RL: RCT (Reactant)
(esterification of, by phenoxybenzyl tosylate deriv., in prepn. of
insecticide and acaricide)
RN 72257-63-7 CAPLUS
RN 72257-64-8 CAPLUS
IT 134454-38-9P 134677-68-2P 134677-71-7P
134677-72-8P
RL: AGR (Agricultural use); BAC (Biological activity or effector,
except
adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP
(Preparation); USES (Uses)
(prepn. of, as insecticide and acaricide)
RN 134454-38-9 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-,
cyano(3-phenoxyphenyl)methyl ester, [1.alpha.(S*),3.alpha.]]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



RN 134677-68-2 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-,
cyano(3-phenoxyphenyl)methyl ester, [1.alpha.(R*),3.beta.]]- (9CI) (CA INDEX NAME)

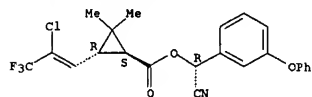
Relative stereochemistry.
Double bond geometry unknown.



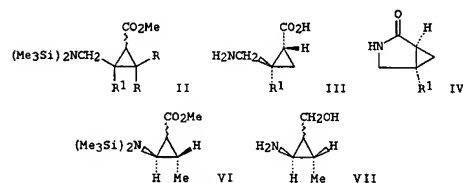
RN 134677-71-7 CAPLUS
RN 134677-72-8 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-

L7 ANSWER 50 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
dimethyl-, cyano(3-phenoxyphenyl)methyl ester,
[1.alpha.(S*),3.beta.]-
(9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



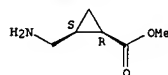
L7 ANSWER 51 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1991:409263 CAPLUS
DOCUMENT NUMBER: 115:9263
TITLE: An efficient route to GABA-analogous amino acids:
cyclopropanation of N-silylated allylamines and
enamines
AUTHOR(S): Paulini, Klaus; Reissig, Hans Ulrich
CORPORATE SOURCE: Inst. Org. Chem., Tech. Hochsch. Darmstadt,
Darmstadt,
D-6100, Fed. Rep. Ger.
SOURCE: Liebigs Ann. Chem. (1991), (5), 455-61
CODEN: LACHDL; ISSN: 0170-2041
DOCUMENT TYPE: Journal
LANGUAGES: German
OTHER SOURCE(S): CASREACT 115:9263
GI



AB N-Silylated allylamines R2C:CR1CH2N(SiMe3)2 (I; R = H, R1 = H, Me; R = Me, R1 = H) are effectively transformed into Me cyclopropanecarboxylates II by Me diazoacetate under Rh2(OAc)4 catalysis. Derivs. II (R = H) are smoothly converted into trans substituted amino acids III and to bicyclic gamma-lactams IV. Thus, the pharmacol. interesting gamma-aminobutyric acid (GABA) analog III (R1 = H) is now available in few steps. Photochem. and thermal Fe(CO)5-induced hydrogen shift converts allylamine derivs. I (R = H) into N-silylated enamines MeCR1:CHN(SiMe3)2 (V). While enamine (E)-V (R1 = H) be cyclopropanated with Me diazoacetate under Cu catalysis to afford the desired cyclopropane derivs. VI in good yield, the other enamines are rather unreactive towards the carbenoid. Use of an optically active catalyst provides VI with an enantiomeric excess of 56% (cis) and 20% (trans). Acid-induced ring cleavage of VI gives the beta-formyl ester OHCCHMeCH2CO2Me, and redn. of VI followed by

L7 ANSWER 51 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
desilylation provides the aminocyclopropane VII in good overall yield, thus demonstrating that cyclopropanes like VI may serve as useful synthetic intermediates.
IT 132592-83-7P 132592-85-9P 132592-87-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and cyclization of, with base)
RN 132592-83-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(aminomethyl)-, methyl ester, hydrochloride, cis- (9CI) (CA INDEX NAME)

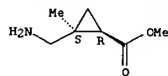
Relative stereochemistry.



● HCl

RN 132592-85-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(aminomethyl)-2-methyl-, methyl ester, hydrochloride, cis- (9CI) (CA INDEX NAME)

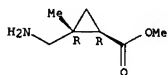
Relative stereochemistry.



● HCl

RN 132592-87-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(aminomethyl)-2-methyl-, methyl ester, trans- (9CI) (CA INDEX NAME)

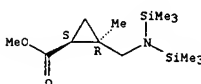
Relative stereochemistry.



IT 132592-79-1P 132592-80-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

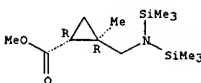
L7 ANSWER 51 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
(prepn. and desilylation of)
RN 132592-79-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[[bis(trimethylsilyl)amino]methyl]-2-methyl-, methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



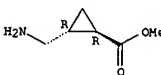
RN 132592-80-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[[bis(trimethylsilyl)amino]methyl]-2-methyl-, methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 132592-84-8P 132592-86-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and sapon. of)
RN 132592-84-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(aminomethyl)-, methyl ester, hydrochloride, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



● HCl

RN 132592-86-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(aminomethyl)-2-methyl-, methyl ester, hydrochloride, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

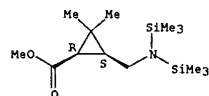
L7 ANSWER 51 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



● HCl

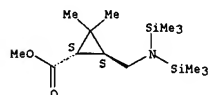
IT 82259-99-2P 82260-00-2P 132592-81-5P
132592-82-6P 132592-90-6P 132696-26-5P
132696-27-6P 132696-28-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 82259-99-2 CAPLUS
RN 82260-00-2 CAPLUS
RN 132592-81-5 CAPLUS
CN Cyclopropanecarboxylic acid,
3-[[bis(trimethylsilyl)amino]methyl]-2,
dimethyl-, methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



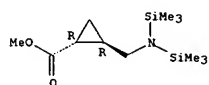
RN 132592-82-6 CAPLUS
CN Cyclopropanecarboxylic acid,
3-[[bis(trimethylsilyl)amino]methyl]-2,
dimethyl-, methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



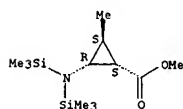
RN 132592-90-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(aminomethyl)-2-methyl-, trans- (9CI)
(CA INDEX NAME)

L7 ANSWER 51 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



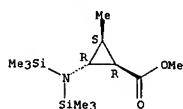
IT 132592-91-7P 132696-25-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn., hydrolysis-ring cleavage, and hydride redn. of)
RN 132592-91-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[[bis(trimethylsilyl)amino]methyl]-3-methyl-,
methyl ester, (1.alpha.,2.alpha.,3.beta.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 132696-25-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[[bis(trimethylsilyl)amino]methyl]-3-methyl-,
methyl ester, (1.alpha.,2.alpha.,3.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

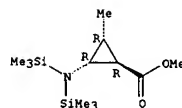


L7 ANSWER 51 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
Relative stereochemistry.



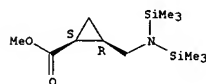
RN 132696-26-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[[bis(trimethylsilyl)amino]methyl]-3-methyl-,
methyl ester, (1.alpha.,2.beta.,3.beta.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 132696-27-6 CAPLUS
RN 132696-28-7 CAPLUS
IT 132592-77-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn., desilylation, and desilylation-cyclization of)
RN 132592-77-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[[bis(trimethylsilyl)amino]methyl]-,
methyl ester, cis- (9CI) (CA INDEX NAME)

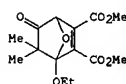
Relative stereochemistry.



IT 132592-78-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn., desilylation, and desilylation-sapon. of)
RN 132592-78-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[[bis(trimethylsilyl)amino]methyl]-,
methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L7 ANSWER 52 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1991:228701 CAPLUS
DOCUMENT NUMBER: 114:228701
TITLE: Tandem cyclization-cycloaddition reaction of
rhodium
carbenoids. Studies dealing with the geometric
requirements of dipole formation
AUTHOR(S): Padwa, Albert; Chinn, Richard L.; Hornbuckle,
Susan
F.; Zhang, Zhijia J.
CORPORATE SOURCE: Dep. Chem., Emory Univ., Atlanta, GA, 30322, USA
SOURCE: J. Org. Chem. (1991), 56(10), 3271-8
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 114:228701
GI



AB The carbenoid intermediate derived by the treatment of several
1-diazobutanediones with Rh(II) acetate undergoes ready transannular
cyclization onto the neighboring keto group to give 5-membered ring
carbonyl ylides. The dipole derived from EtO2CCRMMeCOCHN2 (I; R = H)
underwent a rapid proton transfer, producing 5-ethoxy-4-methyl-3-(2H)-
furanone. When the position adjacent to the diazo carbonyl group is
blocked with 2 substituent groups, however, smooth 1,3-dipolar
cycloaddn. occurs. Thus, Rh-catalyzed cyclization of I (R = Me) and subsequent
reaction with MeO2CC.tpbond.CO2Me gave cycloadduct II. The obsd.
regioselectivity can be nicely accommodated in terms of frontier MO
(FMO) theory. A type II FMO interaction is involved since carbonyl ylides
possess one of the smallest HOMO-LUMO energy gaps of common
1,3-dipoles.
The Rh(II)-catalyzed reaction of 1-diazo-6-phenyl-2,6-hexanedione
afforded
a mixt. of products. In addn. to the expected cycloadduct, a product
derived from the bimol. addn. of the rhodium carbenoid to benzene was
obtained. The formation of a mixt. of products in this case suggests
that
entropic factors have sufficiently retarded the rate of intramol.
cyclization so as to allow the bimol. reaction with benzene to occur.
No
observable cycloadduct was obtained from the diazohexanedione system,
thereby indicating that the longer tether was sufficient to shut down
dipole formation.
IT 3697-66-3, 1,1-Cyclopropanedicarboxylic acid monoethyl ester
RL: RCT (Reactant)

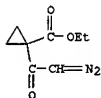
L7 ANSWER 52 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 (diazomethylation of)
 RN 3697-66-3 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, monoethyl ester (8CI, 9CI) (CA INDEX NAME)



IT 56172-71-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and diazomethylation of)
 RN 56172-71-5 CAPLUS
 CN Cyclopropanedicarboxylic acid, 1-acetyl- (9CI) (CA INDEX NAME)

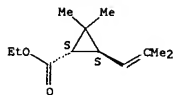


IT 133374-46-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and rhodium-catalyzed cyclization and cycloaddn. reaction of,
 with acetylenedicarboxylate)
 RN 133374-46-6 CAPLUS
 CN Cyclopropanedicarboxylic acid, 1-(diazocetyl)-, ethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 53 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

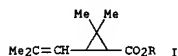
Relative stereochemistry.



L7 ANSWER 53 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1991:207550 CAPLUS
 DOCUMENT NUMBER: 114:207550
 TITLE: Preparation of trans-chrysanthemic acids
 INVENTOR(S): Hagitani, Koji; Fukao, Masami; Sakane, Hiroko;
 Suzuki, Gohfu
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokyo Koho, 5 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03027343	A2	19910205	JP 1989-161293	19890623
JP 2952674	B2	19990927		

OTHER SOURCE(S): MARPAT 114:207550
 GI

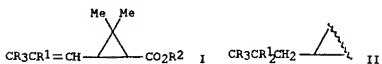


AB The title compds. trans-I (R = H, C1-20 alkyl, cycloalkyl, aralkyl), useful as intermediates for insecticidal pyrethroids, are prepd. by treatment of cis-I or its mixts. with trans-I with HBr in the presence of .storeq.1/500 mol (per mol I) O. A soln. of HBr/AcOH in toluene was added dropwise to 10 g cis-I (R = H) (II) in toluene under O/N (1:9) at atm. pressure (free space vol. of a flask 100 mL) at 20.degree. over 30 min to give 9.6 g I with cis/trans ratio 3.9:96.1, vs. 11.7:88.3 for a control at O/N ratio 1:99.
 IT 15259-78-6, cis-Chrysanthemic acid 15259-78-6D,
 cis-Chrysanthemic acid, esters
 RL: RCT (Reactant)
 (isomerization of, hydrogen bromide and oxygen catalysts for)
 RN 15259-78-6 CAPLUS
 RN 15259-78-6 CAPLUS
 IT 827-90-7DP, trans-Chrysanthemic acid, esters 827-90-7P,
 trans-Chrysanthemic acid 1802-02-4P, trans-Chrysanthemic acid ethyl ester
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, by catalytic isomerization)
 RN 827-90-7 CAPLUS
 RN 827-90-7 CAPLUS
 RN 1802-02-4 CAPLUS
 CN Cyclopropanedicarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl

L7 ANSWER 54 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1991:206628 CAPLUS
 DOCUMENT NUMBER: 114:206628
 TITLE: Preparation of cis- and trans-3-[2-(E/Z)-halo-3,3,3-trihalo-1-propenyl]-2,2-dimethylcyclopropanedicarboxylic acid esters as insecticides
 INVENTOR(S): Hoare, John Harold
 PATENT ASSIGNEE(S): FMC Corp., USA
 SOURCE: Brit. UK Pat. Appl., 45 pp.
 CODEN: BAKXDU
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

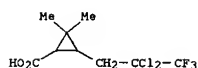
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2229181	A1	19900919	GB 1990-4711	19900302
GB 2229181	B2	19920520		
US 4960922	A	19901002	US 1989-323652	19890315

PRIORITY APPLN. INFO.: US 1989-323652 19890315
 OTHER SOURCE(S): MARPAT 114:206628
 GI



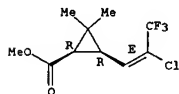
AB Esters of the title acids (I; R, R1 = halo; R2 = H), useful as insecticides or intermediates of pyrethroid insecticides (no data), were prepd. by dehydrohalogenation of tetrahalopropyl analogs (II) with an alkali and/or alk. earth metal base in a polar aprotic anhyd. solvent, in the presence of catalytic amts. of cyclic amidines, e.g., DBU or DBN (heterocycle). Thus, 2,6-(dichlorophenyl)methyl cis/trans-3-(2,2-dichloro-3,3,3-trifluoropropyl)-2,2-dimethylcyclopropanedicarboxylate 771.5, NaOAc 246.0, CaO 44.0, and DBU 76.0 g in 2000 mL AcNMe2 was heated 22.25 h at 82-93.degree. to give 724 g product contg. 29.05 wt.% title ester (I; R = F, R1 = Cl, R2 = 2,6-Cl2C6H3CH2).
 IT 78999-16-3D, esters
 RL: RCT (Reactant)
 (dehydrohalogenation of, in prepn. of insecticides)
 RN 78999-16-3 CAPLUS
 CN Cyclopropanedicarboxylic acid, 3-(2,2-dichloro-3,3,3-trifluoropropyl)-2,2-dimethyl- (9CI) (CA INDEX NAME)

L7 ANSWER 54 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



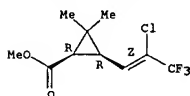
IT 83376-80-1P 83376-81-2P 83376-82-3P
83376-83-4P 133521-60-5P 133521-61-6P
133521-62-7P 133521-63-8P
RL: AGR (Agricultural use); BAC (Biological activity or effector,
except
adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP
(Preparation); USES (Uses)
(prepn. of, as insecticide)
RN 83376-80-1 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-
dimethyl-, methyl ester, [1.alpha.,3.alpha.(E)]- (9CI) (CA INDEX
NAME)

Relative stereochemistry.
Double bond geometry as shown.



RN 83376-81-2 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-
dimethyl-, methyl ester, [1.alpha.,3.alpha.(Z)]- (9CI) (CA INDEX
NAME)

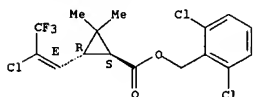
Relative stereochemistry.
Double bond geometry as shown.



RN 83376-82-3 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-
dimethyl-, methyl ester, [1.alpha.,3.alpha.(E)]- (9CI) (CA INDEX
NAME)

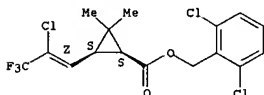
L7 ANSWER 54 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

Relative stereochemistry.
Double bond geometry as shown.



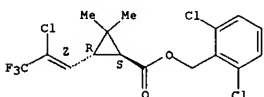
RN 133521-62-7 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-
dimethyl-, (2,6-dichlorophenyl)methyl ester, [1.alpha.,3.alpha.(Z)]-
(9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



RN 133521-63-8 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-
dimethyl-, (2,6-dichlorophenyl)methyl ester, [1.alpha.,3.alpha.(Z)]-
(9CI) (CA INDEX NAME)

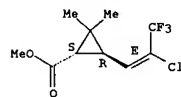
Relative stereochemistry.
Double bond geometry as shown.



IT 74609-46-4DP, esters
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as insecticides)
RN 74609-46-4 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-
dimethyl-, methyl ester, [1.alpha.,3.alpha.(E)]- (9CI) (CA INDEX
NAME)

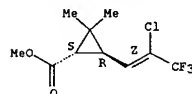
L7 ANSWER 54 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
dimethyl-, methyl ester, [1.alpha.,3.alpha.(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



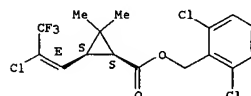
RN 83376-83-4 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-
dimethyl-, methyl ester, [1.alpha.,3.alpha.(Z)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



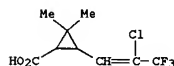
RN 133521-60-5 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-
dimethyl-, (2,6-dichlorophenyl)methyl ester, [1.alpha.,3.alpha.(E)]-
(9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



RN 133521-61-6 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-
dimethyl-, (2,6-dichlorophenyl)methyl ester, [1.alpha.,3.alpha.(E)]-
(9CI) (CA INDEX NAME)

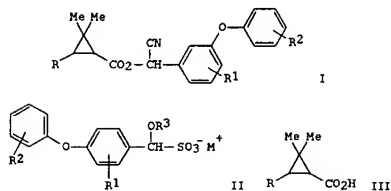
L7 ANSWER 54 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
dimethyl- (9CI) (CA INDEX NAME)



L7 ANSWER 55 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1991:185016 CAPLUS
 DOCUMENT NUMBER: 114:185016
 TITLE: Process for preparing .alpha.-cyanobenzyl
 cyclopropanoates
 INVENTOR(S): Hodacova, Jana; Tichy, Milos; Kral, Vladimir;
 Dvorak, Dalimil; Zavada, Jiri; Stibor, Ivan; Hostecky,
 Jiri;
 Votava, Vladimir; Dolansky, Vladimir; et al.
 PATENT ASSIGNEE(S): Czech.
 SOURCE: Czech., 9 pp.
 CODEN: CZAKA9
 DOCUMENT TYPE: Patent
 LANGUAGE: Czech
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

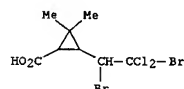
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CS 265009	B1	19890912	CS 1986-7146	19861003

OTHER SOURCE(S): MARPAT 114:185016
 GI

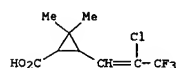


AB The title compds. [I; R = (un)substituted C1-3 alkenyl; R1, R2 = H, halo] were prepd. by reaction of sulfonate salts II (R3 = H, CH2CH2OH; M+ = alkali metal cation, ammonium; R1, R2 as above) with 1-3 equiv. of an alkali cyanide, 1 equiv. of the appropriate cyclopropanecarboxylic acid (III), 1 equiv. of (NH4)2CO3 or an alkali metal carbonate, and 1-2 equiv. sulfonyl chloride R4SO2Cl [R4 = (Me-substituted) Ph], in the presence of a phase transfer catalyst, e.g., quaternary ammonium salt, and a Bronsted base at 0-90.degree. in a 2-phase liq. system contg. H2O and a H2O-immiscible solvent. A mixt. of III (R = cis-CCl2:CH) 0.9S, K2CO2 1.38, II (R1 = R2 = R3 = H, M = Na) 1.55, KCN 0.98, PhCH2N+Et3 Cl- 0.67,

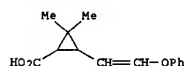
L7 ANSWER 55 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



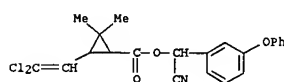
RN 74609-46-4 CAPLUS
 CN Cyclopropanecarboxylic acid,
 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-
 dimethyl- (9CI) (CA INDEX NAME)



RN 133226-92-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-phenoxyethenyl)-
 (9CI) (CA INDEX NAME)



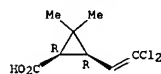
IT 52315-07-8P 66824-41-7P 66841-26-7P
 68085-85-8P 133226-90-1P 133226-91-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, method for)
 RN 52315-07-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
 cyano(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 66824-41-7 CAPLUS
 CN Cyclopropanecarboxylic acid,
 2,2-dimethyl-3-(1,2,2,2-tetrachloroethyl)-,
 cyano(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)

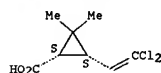
L7 ANSWER 55 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 and 4-CH3C6H4SO2Cl 0.95 g in 5 mL H2O and 20 mL PhMe was stirred
 intensively for 70 h at the ambient temp. to give 1.88 g title compd.
 (I;
 R = cis-CCl2:CH, R1 = R2 = H). Some analogous esters are
 insecticides.
 IT 827-90-7 15259-78-6 55667-40-8
 59042-49-8 66841-66-5 68198-91-4
 74609-46-4 133226-92-3
 RL: RCT (Reactant)
 (condensation of, with phenoxyphenylsulfonylmethanol deriv. and
 cyanide, method for)
 RN 827-90-7 CAPLUS
 RN 15259-78-6 CAPLUS
 RN 55667-40-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
 (1R,3R)-rel- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

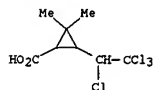


RN 59042-49-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
 (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

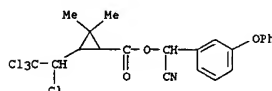


RN 66841-66-5 CAPLUS
 CN Cyclopropanecarboxylic acid,
 2,2-dimethyl-3-(1,2,2,2-tetrachloroethyl)-
 (9CI) (CA INDEX NAME)

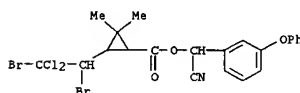


RN 68198-91-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(1,2-dibromo-2,2-dichloroethyl)-2,2-
 dimethyl- (9CI) (CA INDEX NAME)

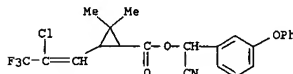
L7 ANSWER 55 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



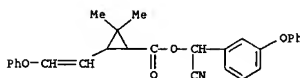
RN 66841-26-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(1,2-dibromo-2,2-dichloroethyl)-2,2-
 dimethyl-, cyano(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 68085-85-8 CAPLUS
 CN Cyclopropanecarboxylic acid,
 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-
 dimethyl-, cyano(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)

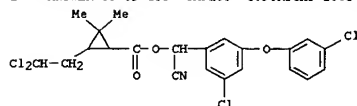


RN 133226-90-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-phenoxyethenyl)-,
 cyano(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



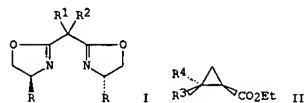
RN 133226-91-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethyl)-2,2-dimethyl-,
 [3-chloro-5-(3-chlorophenoxy)phenyl]cyanomethyl ester (9CI) (CA INDEX NAME)

L7 ANSWER 55 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



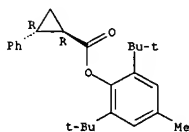
L7 ANSWER 56 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1991:122126 CAPLUS
 DOCUMENT NUMBER: 114:122126
 TITLE: Bis(oxazolines) as chiral ligands in metal-catalyzed

asymmetric reactions. Catalytic, asymmetric cyclopropanation of olefins
 Evans, David A.; Woerpel, Keith A.; Hinman, Mira M.;
 Faul, Margaret M.
 CORPORATE SOURCE: Dep. Chem., Harvard Univ., Cambridge, MA, 02138, USA
 SOURCE: J. Am. Chem. Soc. (1991), 113(2), 726-8
 CODEN: JACSAT; ISSN: 0002-7863
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 114:122126
 GI



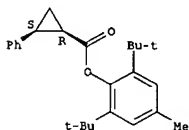
AB Chiral bis(oxazoline) derivs., e.g. I (R = CHMe2, CHMe3; R1 = H, Me) were used upon complexation with cuprous triflate for the stereoselective cyclopropanation of styrene. Thus, the cyclopropanation of styrene with N2CH2CO2Et in the presence of I (R = CHMe3; R1 = Me) and cuprous triflate gave cyclopropanecarboxylates II (R3 = H, R4 = Ph) and II (R3 = Ph, R4 = H) in 77% overall yield, in a 73:27 isomer ratio and in 99 and 97% enantiomeric excess, resp. Other monosubstituted or 1,1-disubstituted olefins behaved similarly, giving cyclopropyl esters, essentially with abs. stereocontrol.
 IT 131899-82-6P 131899-85-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and redn. of)
 RN 131899-82-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, 2,6-bis(1,1-dimethylethyl)-4-methylphenyl ester, (1R-trans)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

L7 ANSWER 56 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



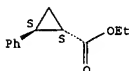
RN 131899-85-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, 2,6-bis(1,1-dimethylethyl)-4-methylphenyl ester, (1R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 34702-96-0P 34703-00-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and transamination or epimerization of)
 RN 34702-96-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1S,2S)- (9CI) (CA INDEX NAME)

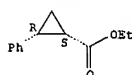
Absolute stereochemistry. Rotation (+).



RN 34703-00-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1S,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

L7 ANSWER 56 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



IT 23020-15-7P 23020-18-0P 34702-97-1P
 34716-60-4P 67428-04-0P 89007-61-4P
 131833-95-9P 131899-81-5P 131899-83-7P
 131899-84-8P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

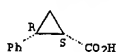
RN 23020-15-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, (1S,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



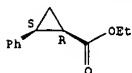
RN 23020-18-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, (1S,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 34702-97-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1R,2S)- (9CI) (CA INDEX NAME)

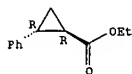
Absolute stereochemistry. Rotation (-).



RN 34716-60-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1R,2R)- (9CI) (CA INDEX NAME)

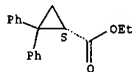
L7 ANSWER 56 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

Absolute stereochemistry. Rotation (-).



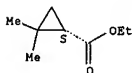
RN 67428-04-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-diphenyl-, ethyl ester, (1S)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



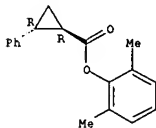
RN 89007-61-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-, ethyl ester, (S)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



RN 131833-95-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, 2,6-dimethylphenyl ester, (1R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

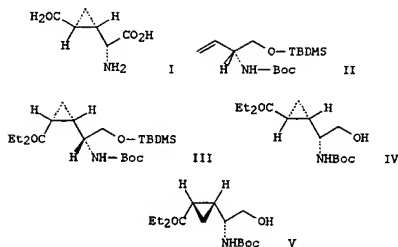


RN 131899-81-5 CAPLUS

L7 ANSWER 57 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1990:553041 CAPLUS
DOCUMENT NUMBER: 113:153041
TITLE: Preparation of (2R,3S,4S)-.alpha.-(carboxycyclopropyl)glycine as a
N-methyl-D-aspartate
INVENTOR(S): acid (NMDA)-type glutamate receptor agonist
Ohfun, Yasufumi; Shimamoto, Keiko; Shinozaki,
Haruhiko; Ishida, Michiko
PATENT ASSIGNEE(S): Suntory, Ltd., Japan
SOURCE: Eur. Pat. Appl., 6 pp.
CODEN: EFXKDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 363994	A2	19900418	EP 1989-119266	19891017
EP 363994	A3	19910327		
EP 363994	B1	19930922		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE				
JP 02108654	A2	19900420	JP 1988-261155	19881017
JP 2757960	E2	19900525		
US 5068412	A	19911126	US 1989-422796	19891017
AT 94867	E	19931015	AT 1989-119266	19891017
ES 2059669	T3	19941116	ES 1989-119266	19891017
PRIORITY APPLN. INFO.:			JP 1988-261155	19881017
			EP 1989-119266	19891017

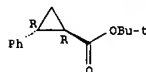
GI



AB The title compd. (I), a conformationally restricted glutamatergic agonist

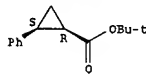
L7 ANSWER 56 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
CN Cyclopropanecarboxylic acid, 2-phenyl-, 1,1-dimethylethyl ester, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



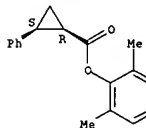
RN 131899-83-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, 1,1-dimethylethyl ester, (1R,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

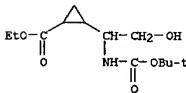


RN 131899-84-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, 2,6-dimethylphenyl ester, (1R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

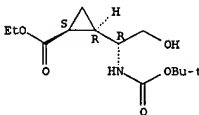


L7 ANSWER 57 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
useful as a tool to investigate various neuronal functions related to the
excitatory amino acid receptors, was prepd. by a procedure comprising
(1) cycloaddn. reaction of (2R)-2-aminobutanol deriv. (I); Boc = tert-butyloxycarbonyl; TBDMS = tert-butyldimethylsilyl with Et diazoacetate in Et2O in the presence of Pd(OAc)2; (2) removal of TBDMS groups from the resulting mixt. of 4 stereoisomers of (2R)-.alpha.-(carboxycyclopropyl)glycinol derivs. (II) by an acid catalyst, e.g., D,L-camphorsulfonic acid in EtOH; (3) chromatog. sepn. of carboxycyclopropyl alics. (IV and V), and oxidn. of IV by Jones reagent followed by deprotection. In an electrophysiol. expt. with the isolated newborn rat spinal cord I had a min. effective concn. of 3 .times. 10-7 mol./L vs. 1 .times. 10-4 for L-glutamic acid.
IT 129569-17-1P 129569-18-2P
RL: SPN (Synthetic preparation); FORM (Formation, nonpreparative);
PREP (Preparation)
(formation of, in prepn. of glutamatergic agonist)
RN 129569-17-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[1-[[[(1,1-dimethylethoxy)carbonyl]amino]-2-hydroxyethyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 129569-18-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[1-[[[(1,1-dimethylethoxy)carbonyl]amino]-2-hydroxyethyl]-, ethyl ester, [1S-[1.alpha.,2.alpha.(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



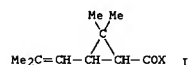
IT 129569-16-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

L7 ANSWER 59 OF 139 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1990:179518 CAPLUS
DOCUMENT NUMBER: 112:179518
TITLE: Preparation of trans-chrysanthemumic acid derivatives
INVENTOR(S): by isomerization
Suzukamo, Gohfu; Fukao, Masami; Sakito, Yoji
PATENT ASSIGNER(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKOXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01287053	A2	19891117	JP 1988-115371	19880512
JP 07017567	B4	19950301		

OTHER SOURCE(S): MARPAT 112:179518
G1



AB The title derivs. trans-I (X = OH, halo, C1-20 alkoxy, aralkyloxy, 2,2-dimethyl-3-isobutenylcyclopropanecarbonyloxy), useful as intermediates for pyrethroid insecticides, are prepd. by treatment of cis-I, or their mixts. with trans-I, with SH compds. in the presence of peroxides or azo compds. A toluene soln. of PhSH was added dropwise to a mixt. of cis-I (X = OH) (1.0 g), NCCMe₂N:NCMe₂CN, and toluene at 80.degree. and the reaction mixt. was further stirred at 80.degree. for 1 h to give 0.92 g I (cis/trans = 8.5/91.5).

IT 15259-78-6, cis-Chrysanthemumic acid
RL: RCT (Reactant)
(isomerization of, catalysts for)

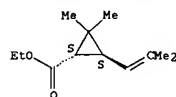
RN 15259-78-6 CAPLUS
IT 827-90-7P, trans-Chrysanthemumic acid 1802-02-4P, Ethyl trans-chrysanthemate 14297-82-6P 24141-52-4P, Methyl trans-chrysanthemate 96393-69-0P, Butyl trans-chrysanthemate
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, by isomerization)

RN 827-90-7 CAPLUS
RN 1802-02-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

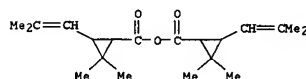
L7 ANSWER 59 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

L7 ANSWER 59 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

Relative stereochemistry.

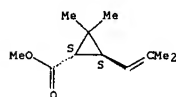


RN 14297-82-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, anhydride (9CI) (CA INDEX NAME)



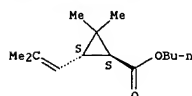
RN 24141-52-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, methyl ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



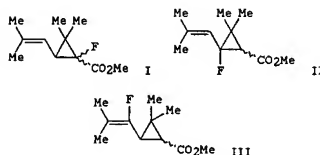
RN 96393-69-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, butyl ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L7 ANSWER 60 OF 139 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1989:614709 CAPLUS
DOCUMENT NUMBER: 111:214709
TITLE: Attempted and accomplished syntheses of a few monofluorinated chrysanthemic acid derivatives
AUTHOR(S): Cottens, Sylvain; Schlosser, Manfred
CORPORATE SOURCE: Inst. Chim. Org., Univ. Lausanne, Lausanne, CH-1005, Switz.
SOURCE: Tetrahedron (1988), 44(23), 7127-44
CODEN: TETRAE; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 111:214709
G1

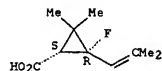


AB A sulfone mediated approach presumably did produce Me .alpha.-fluorochrysanthemate I but, if formed, the latter immediately underwent dehydrofluorination under the strongly basic reaction conditions. The cis- and trans-isomers of Me .beta.- and .gamma.-fluorochrysanthemates II and III were concomitantly obtained by treating 3-fluoro-2,5-dimethyl-2,4-hexadiene with N₂CH₂CO₂Me in the presence of catalytic amts. of Rh(OAc)₃. After enzymic and chromatog. sepn. the four individual components were converted to the m-phenoxybenzyl esters.

IT 123502-20-5P 123502-21-6P 123502-22-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and esterification of)

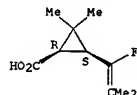
RN 123502-20-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2-fluoro-3,3-dimethyl-2-(2-methyl-1-propenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



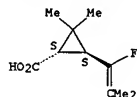
RN 123502-21-6 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(1-fluoro-2-methyl-1-propenyl)-2,2-dimethyl-
, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



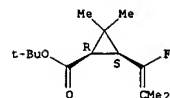
RN 123502-22-7 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(1-fluoro-2-methyl-1-propenyl)-2,2-dimethyl-
, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



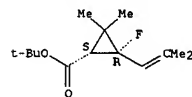
IT 123502-15-8P 123502-16-9P 123502-17-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and hydrolysis of)
RN 123502-15-8 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(1-fluoro-2-methyl-1-propenyl)-2,2-dimethyl-
, 1,1-dimethylethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



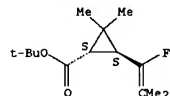
RN 123502-16-9 CAPLUS
CN Cyclopropanecarboxylic acid,
2-fluoro-3,3-dimethyl-2-(2-methyl-1-propenyl)-
, 1,1-dimethylethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



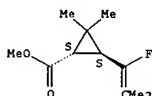
RN 123502-17-0 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(1-fluoro-2-methyl-1-propenyl)-2,2-dimethyl-
, 1,1-dimethylethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



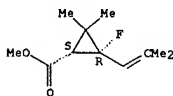
IT 123502-03-4P 123502-04-5P 123502-06-7P
123502-07-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and transesterification of)
RN 123502-03-4 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(1-fluoro-2-methyl-1-propenyl)-2,2-dimethyl-
, methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



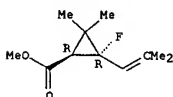
RN 123502-04-5 CAPLUS
CN Cyclopropanecarboxylic acid,
2-fluoro-3,3-dimethyl-2-(2-methyl-1-propenyl)-
, methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



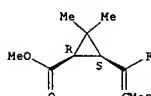
RN 123502-06-7 CAPLUS
CN Cyclopropanecarboxylic acid,
2-fluoro-3,3-dimethyl-2-(2-methyl-1-propenyl)-
, methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



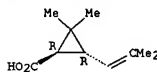
RN 123502-07-8 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(1-fluoro-2-methyl-1-propenyl)-2,2-dimethyl-
, methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



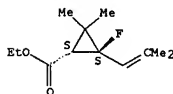
IT 4638-92-0DP, fluoro derivs.
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 4638-92-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
(1R,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



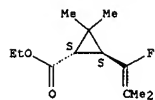
IT 123502-11-4P 123502-12-5P 123502-13-6P
123539-92-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as potential pyrethroid)
RN 123502-11-4 CAPLUS
CN Cyclopropanecarboxylic acid,
2-fluoro-3,3-dimethyl-2-(2-methyl-1-propenyl)-
, ethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



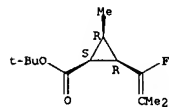
RN 123502-12-5 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(1-fluoro-2-methyl-1-propenyl)-2,2-dimethyl-
, ethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



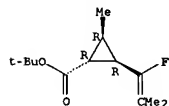
RN 123502-13-6 CAPLUS
CN Cyclopropanecarboxylic acid,
2-(1-fluoro-2-methyl-1-propenyl)-3-methyl-
1,1-dimethylethyl ester, (1.alpha.,2.alpha.,3.alpha.)- (9CI) (CA
INDEX NAME)

Relative stereochemistry.

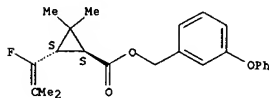


RN 123539-92-4 CAPLUS
CN Cyclopropanecarboxylic acid,
2-(1-fluoro-2-methyl-1-propenyl)-3-methyl-
1,1-dimethylethyl ester, (1.alpha.,2.beta.,3.beta.)- (9CI) (CA INDEX
NAME)

Relative stereochemistry.

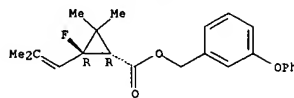
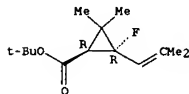


IT 123502-23-8P 123502-24-9P 123502-25-0P
123502-26-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as potential pyrethroids)
RN 123502-23-8 CAPLUS
CN Cyclopropanecarboxylic acid,
2-fluoro-3,3-dimethyl-2-(2-methyl-1-propenyl)-
, (3-phenoxyphenyl)methyl ester, trans- (9CI) (CA INDEX NAME)



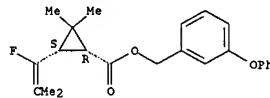
IT 123502-14-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn., ring cleavage, and hydrolysis of)
RN 123502-14-7 CAPLUS
CN Cyclopropanecarboxylic acid,
2-fluoro-3,3-dimethyl-2-(2-methyl-1-propenyl)-
, 1,1-dimethylethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



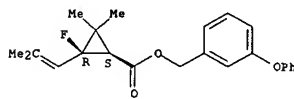
RN 123502-24-9 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(1-fluoro-2-methyl-1-propenyl)-2,2-dimethyl-
, (3-phenoxyphenyl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



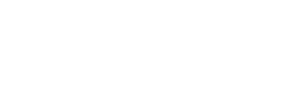
RN 123502-25-0 CAPLUS
CN Cyclopropanecarboxylic acid,
2-fluoro-3,3-dimethyl-2-(2-methyl-1-propenyl)-
, (3-phenoxyphenyl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

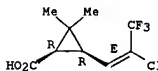


RN 123502-26-1 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(1-fluoro-2-methyl-1-propenyl)-2,2-dimethyl-
, (3-phenoxyphenyl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



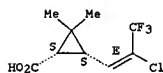
L7 ANSWER 61 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1989:573178 CAPLUS
DOCUMENT NUMBER: 111:173178
TITLE: Asymmetric hydrocyanation of a range of aromatic
and
aliphatic aldehydes
AUTHOR(S): Matthews, Barry R.; Jackson, W. Roy; Jayatilake,
Gamini S.; Wilshire, Colin; Jacobs, Howard A.
CORPORATE SOURCE: Dep. Chem., Monash Univ., Clayton, 3168, Australia
SOURCE: Aust. J. Chem. (1988), 41(11), 1697-709
CODEN: AJCHAS; ISSN: 0004-9425
DOCUMENT TYPE: English
LANGUAGE: English
OTHER SOURCE(S): CASREACT 111:173178
AB A range of aryl, alkyl and heterocyclic aldehydes have been treated
with
HCN in the presence of the Inoue catalyst, (R,R)- or
(S,S)-cyclo[phenylalanylhistidyl]. Most aryl aldehydes with
electron-donating substituents in the m- or p-positions give high
enantiomeric excess (e.e.) values (gtoreq.80%), but aryl aldehydes
with
strong electron-withdrawing substituents gave moderate e.e. values
(ltoreq.50%). These moderate values are believed to be due to
partial
racemization of the product cyanohydrins in the presence of the mildly
basic catalyst. In contrast to the reactions of aryl aldehydes,
reactions of alkyl aldehydes and of ketones gave low e.e. values
(ltoreq.30%), an explanation is proposed.
IT 87725-85-7 122045-31-2
RL: RCT (Reactant)
(esterification of, with hydroxy nitriles, detn. of enantiomeric
excess
by)
RN 87725-85-7 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-
dimethyl-, [1R-[1.alpha.,3.alpha.(E)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

RN 122045-31-2 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-
dimethyl-, [1S-[1.alpha.,3.alpha.(E)]]- (9CI) (CA INDEX NAME)

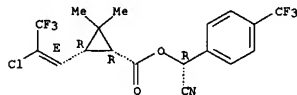
Absolute stereochemistry.
Double bond geometry as shown.

L7 ANSWER 61 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



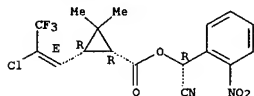
IT 121950-23-0P 121950-24-1P 121950-25-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and racemization of)
 RN 121950-23-0 CAPLUS
 CN Cyclopropanecarboxylic acid,
 3-(2-chloro-3,3-trifluoro-1-propenyl)-2,2-
 dimethyl-, cyano[4-(trifluoromethyl)phenyl]methyl ester,
 [1R-[1.alpha.(R*),3.alpha.(E)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



RN 121950-24-1 CAPLUS
 CN Cyclopropanecarboxylic acid,
 3-(2-chloro-3,3-trifluoro-1-propenyl)-2,2-
 dimethyl-, cyano(2-nitrophenyl)methyl ester, [1R-
 [1.alpha.(R*),3.alpha.(E)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.

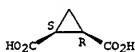


RN 121950-25-2 CAPLUS
 CN Cyclopropanecarboxylic acid,
 3-(2-chloro-3,3-trifluoro-1-propenyl)-2,2-
 dimethyl-, cyano(4-nitrophenyl)methyl ester, [1R-
 [1.alpha.(R*),3.alpha.(E)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.

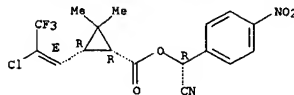
L7 ANSWER 62 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1989:533660 CAPLUS
 DOCUMENT NUMBER: 111:133660
 TITLE: Cyclopropanediamines. 3. Pure diastereomers of
 1,2-cyclopropanedicarboxylic acids and
 derivatives
 AUTHOR(S): Von der Saal, Wolfgang; Reinhardt, Robert;
 Seidenspinner, Hubert Matthias; Stawitz, Josef;
 Quast,
 Helmut
 CORPORATE SOURCE: Inst. Org. Chem., Univ. Wuerzburg, Wuerzburg,
 D-8700,
 Fed. Rep. Ger.
 SOURCE: Liebigs Ann. Chem. (1989), (8), 703-12
 CODEN: LACHDL; ISSN: 0170-2041
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 OTHER SOURCE(S): CASREACT 111:133660
 AB Efficient preps. of pure diastereomers of di-Me 1,2-
 cyclopropanedicarboxylates, dicarboxylic acids, dicarbonyl
 dichlorides,
 and dihydrazides are reported. Mixts. of diastereomers of di-Me
 dicarboxylates are obtained from .alpha.,.beta.-unsatd. Me
 carboxylates
 and Me .alpha.-chlorocarboxylates as well as from RCH:CHCO2Me (R =
 Me, Ph)
 and Me2S+C-HCO2Me. The diastereomers are sepd. by fractionating
 distns.
 or crystn. on a 100 g to 1 kg scale (d.e. .gtoreq.99%).
 3,3-Dimethyl-cis-1,2-cyclopropanedicarboxylic acid is obtained by
 trans
 .fwdarw. cis isomerization with the help of Ac2O and AcONa as
 catalyst. Derivs. of cis-1,2-dimethyl-1,2-
 cyclopropanedicarboxylic acid tend to form bicyclic products.
 IT 696-74-2P 697-48-3P 699-49-0P
 936-87-8P 1740-84-7P 16601-23-3P
 19952-64-8P 19952-66-0P 119908-64-4P
 119908-65-5P 119908-66-6P 119945-23-2P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and spectra of)
 RN 696-74-2 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, (1R,2S)-rel- (9CI) (CA INDEX
 NAME)

Relative stereochemistry.



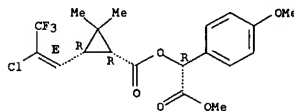
RN 697-48-3 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, 1-methyl-, cis- (8CI, 9CI) (CA
 INDEX
 NAME)

L7 ANSWER 61 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

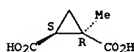


IT 121950-26-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 121950-26-3 CAPLUS
 CN Benzeneacetic acid,
 .alpha.-[[[3-(2-chloro-3,3-trifluoro-1-propenyl)-2,2-
 dimethylcyclopropyl]carbonyloxy]-4-methoxy-, methyl ester,
 [1R-[1.alpha.(R*),3.alpha.(E)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.

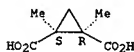


L7 ANSWER 62 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 Relative stereochemistry.



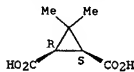
RN 699-49-0 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, 1,2-dimethyl-, cis- (8CI, 9CI) (CA
 INDEX NAME)

Relative stereochemistry.



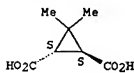
RN 936-87-8 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, 3,3-dimethyl-, cis- (8CI, 9CI) (CA
 INDEX NAME)

Relative stereochemistry.



RN 1740-84-7 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, 3,3-dimethyl-, trans- (8CI, 9CI)
 (CA
 INDEX NAME)

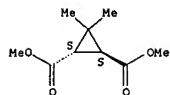
Relative stereochemistry.



RN 16601-23-3 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, 3,3-dimethyl-, dimethyl ester,
 (1R,2R)-rel- (9CI) (CA INDEX NAME)

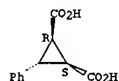
Relative stereochemistry.

L7 ANSWER 62 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



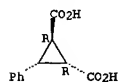
RN 19952-64-8 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 3-phenyl-,
(1.alpha.,2.alpha.,3.beta.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 19952-66-0 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 3-phenyl-,
(1.alpha.,2.beta.,3.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 119908-64-4 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, dipotassium salt, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

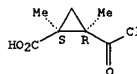


● 2 X

L7 ANSWER 62 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

RN 119908-77-9 CAPLUS
CN Cyclopropanedicarboxylic acid, 2-(chlorocarbonyl)-1,2-dimethyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 702-91-0P 702-92-1P 826-34-6P
826-35-7P 6914-70-1P 6914-83-6P
14661-79-1P 19952-65-9P 20098-66-2P
28363-79-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn., spectra, and reactions of)

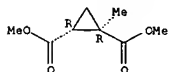
RN 702-91-0 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1-methyl-, dimethyl ester, cis- (8CI, 9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 702-92-1 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1-methyl-, dimethyl ester, trans- (8CI, 9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 826-34-6 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, dimethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L7 ANSWER 62 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

RN 119908-65-5 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1-methyl-, dipotassium salt, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



● 2 K

RN 119908-66-6 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1,2-dimethyl-, dipotassium salt, cis- (9CI) (CA INDEX NAME)

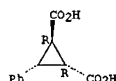
Relative stereochemistry.



● 2 K

RN 119945-23-2 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 3-phenyl-, dipotassium salt, (1.alpha.,2.beta.,3.alpha.)- (9CI) (CA INDEX NAME)

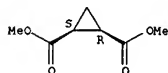
Relative stereochemistry.



● 2 K

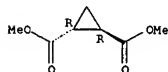
IT 119908-77-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

L7 ANSWER 62 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



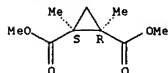
RN 826-35-7 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, dimethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



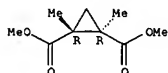
RN 6914-70-1 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1,2-dimethyl-, dimethyl ester, cis- (8CI, 9CI) (CA INDEX NAME)

Relative stereochemistry.



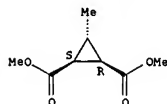
RN 6914-83-6 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1,2-dimethyl-, dimethyl ester, trans- (8CI, 9CI) (CA INDEX NAME)

Relative stereochemistry.



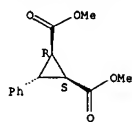
RN 14661-79-1 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 3-methyl-, dimethyl ester, (1.alpha.,2.alpha.,3.beta.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



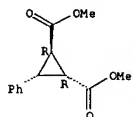
RN 19952-65-9 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 3-phenyl-, dimethyl ester,
(1.alpha.,2.alpha.,3.beta.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 20098-66-2 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 3-phenyl-, dimethyl ester,
(1.alpha.,2.beta.,3.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

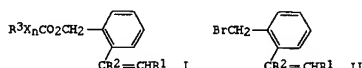


RN 28363-79-3 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 3-methyl-, dimethyl ester,
(1R,2R)-rel- (9CI) (CA INDEX NAME)

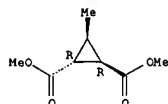
Relative stereochemistry.

L7 ANSWER 63 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1989492323 CAPLUS
DOCUMENT NUMBER: 111:92323
TITLE: Preparation of (ortho-substituted)benzyl
carboxylates
INVENTOR(S): as fungicides
Schuetz, Franz; Sauter, Hubert; Schirmer, Ulrich;
Wolf, Bernd; Ammermann, Eberhard; Pommer, Ernst
Heinrich
PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.
SOURCE: Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

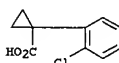
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 310954	A1	19890412	EP 1988-116173	19880930
EP 310954	B1	19901122		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE				
DE 3733870	A1	19890427	DE 1987-3733870	19871007
IL 87825	A1	19920329	IL 1988-87825	19880920
CA 1315277	A1	19930330	CA 1988-578569	19880927
AT 58522	E	19901215	AT 1988-116173	19880930
DD 274557	A5	19891227	DD 1988-320449	19881004
JP 01128959	A2	19890522	JP 1988-250043	19881005
AU 8823464	A1	19890413	AU 1988-23464	19881006
AU 611485	B2	19910613		
HU 49562	A2	19891030	HU 1988-5186	19881006
HU 200587	B	19900728		
ZA 8807493	A	19900627	ZA 1988-7493	19881006
CZ 283689	B6	19980617	CZ 1988-6653	19881006
US 4952720	A	19900828	US 1988-254696	19881007
PRIORITY APPLN. INFO.: DE 1987-3733870 19871007				
EP 1988-116173 19880930				
OTHER SOURCE(S): CASREACT 111:92323; MARPAT 111:92323				
GI				



AB The title compds. I [R1 = alkoxy, alkylthio, halo, NH2, alkylamino;
R2 = alkoxy, carbonyl, CN, CONH2; R3 = H, halo, CN, (un)substituted aryl or
aryloxy, etc.; X = alkylene, haloalkylene, hydroxyalkylene; n = 0,
1] are
fungicides, prep. by the reaction of the corresponding benzyl
bromide II
with an alkali metal, alk. earth metal or ammonium salt of R3XnCO2H
in a

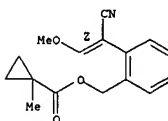


L7 ANSWER 63 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
solvent, optionally in the presence of a catalyst. BrOH was
converted into the K salt by treatment with KOH in EtOH, followed by
reaction with II (R1 = OMe, R2 = CO2Me) in DMP, to give Me
.alpha.-(2-benzoyloxymethylphenyl)-.beta.-methoxyacrylate. (E)-I [R1
= OMe, R2 = CO2Me, R3 = H, Xn = (CH2)4CHMeCH2] (III) (0.025%) controlled
Puccinia recondita on wheat, in pot expts. A formulation comprised
III
20, Ca dodecylbenzenesulfonate 2, fatty alc. polyglycol ether 8,
phenolsulfonic acid-urea-formaldehyde condensate 2, and paraffinic
mineral
oil 68% by wt.
IT 122143-19-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction of, with acrylic acid deriv.)
RN 122143-19-5 CAPLUS
CN Cyclopropanecarboxylic acid, 1-(2-chlorophenyl)- (9CI) (CA INDEX
NAME)



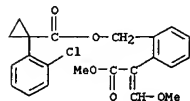
IT 122143-89-9P
RL: AGR (Agricultural use); BAC (Biological activity or effector,
except
adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP
(Preparation); USES (Uses)
(prepn. of, as agrochem. fungicide)
RN 122143-89-9 CAPLUS
CN Cyclopropanecarboxylic acid, 1-methyl-, [2-(1-cyano-2-
methoxyethenyl)phenyl]methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



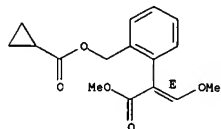
IT 122143-17-3P 122143-29-7P 122143-60-6P
122143-61-7P 122143-62-8P 122143-63-9P
122143-64-0P 122143-77-5P 122143-78-6P
122143-79-7P 122143-80-0P 122143-81-1P
122143-82-2P 122143-83-3P 122143-84-4P
122143-85-5P 122143-87-7P 122168-51-8P

L7 ANSWER 63 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 122168-52-9p
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as fungicide)
 RN 122143-17-3 CAPLUS
 CN Benzeneacetic acid, 2-[[[1-(2-chlorophenyl)cyclopropyl]carbonyl]oxy]methyl-1]-.alpha.-(methoxymethylene)-, methyl ester (9CI) (CA INDEX NAME)

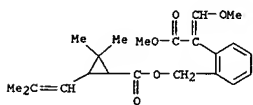


RN 122143-29-7 CAPLUS
 CN Benzeneacetic acid, 2-[[[(cyclopropylcarbonyl)oxy]methyl]-.alpha.-(methoxymethylene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

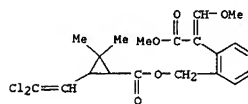


RN 122143-60-6 CAPLUS
 CN Benzeneacetic acid, 2-[[[2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropyl]carbonyl]oxy]methyl]-.alpha.-(methoxymethylene)-, methyl ester (9CI) (CA INDEX NAME)

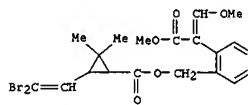


RN 122143-61-7 CAPLUS
 CN Benzeneacetic acid, 2-[[[3-(2,2-dichloroethenyl)-2,2-

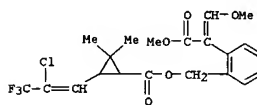
L7 ANSWER 63 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 dimethylcyclopropyl]carbonyl]oxy]methyl]-.alpha.-(methoxymethylene)-, methyl ester (9CI) (CA INDEX NAME)



RN 122143-62-8 CAPLUS
 CN Benzeneacetic acid, 2-[[[3-(2,2-dibromoethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxy]methyl]-.alpha.-(methoxymethylene)-, methyl ester (9CI) (CA INDEX NAME)



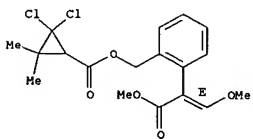
RN 122143-63-9 CAPLUS
 CN Benzeneacetic acid, 2-[[[3-(2-chloro-3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropyl]carbonyl]oxy]methyl]-.alpha.-(methoxymethylene)-, methyl ester (9CI) (CA INDEX NAME)



RN 122143-64-0 CAPLUS
 CN Benzeneacetic acid, 2-[[[2,2-dichloro-3,3-dimethylcyclopropyl]carbonyl]oxy]methyl]-.alpha.-(methoxymethylene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

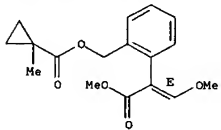
Double bond geometry as shown.

L7 ANSWER 63 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

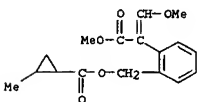


RN 122143-77-5 CAPLUS
 CN Benzeneacetic acid, .alpha.-(methoxymethylene)-2-[[[1-(2-methylcyclopropyl)carbonyl]oxy]methyl]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



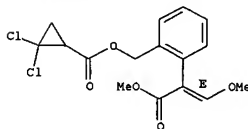
RN 122143-78-6 CAPLUS
 CN Benzeneacetic acid, .alpha.-(methoxymethylene)-2-[[[2-methylcyclopropyl]carbonyl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 122143-79-7 CAPLUS
 CN Benzeneacetic acid, 2-[[[1-(2,2-dichlorocyclopropyl)carbonyl]oxy]methyl]-.alpha.-(methoxymethylene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

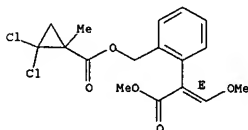
Double bond geometry as shown.

L7 ANSWER 63 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

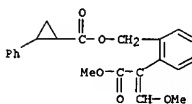


RN 122143-80-0 CAPLUS
 CN Benzeneacetic acid, 2-[[[2,2-dichloro-1-methylcyclopropyl]carbonyl]oxy]methyl]-.alpha.-(methoxymethylene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

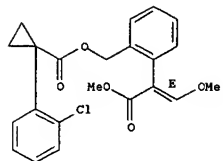


RN 122143-81-1 CAPLUS
 CN Benzeneacetic acid, .alpha.-(methoxymethylene)-2-[[[2-phenylcyclopropyl]carbonyl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



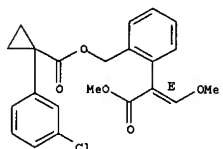
RN 122143-82-2 CAPLUS
 CN Benzeneacetic acid, 2-[[[1-(2-chlorophenyl)cyclopropyl]carbonyl]oxy]methyl]-.alpha.-(methoxymethylene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



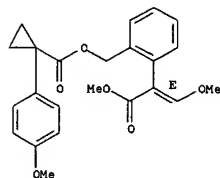
RN 122143-83-3 CAPLUS
 CN Benzeneacetic acid, 2-[[[1-(3-chlorophenyl)cyclopropyl]carbonyl]oxy]methyl 2-methoxy-3-(2-methoxyethenyl)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

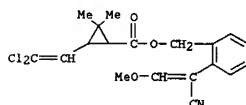


RN 122143-84-4 CAPLUS
 CN Benzeneacetic acid, .alpha.-(methoxymethylene)-2-[[[1-(4-methoxyphenyl)cyclopropyl]carbonyl]oxy]methyl]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

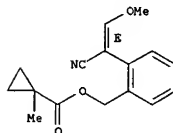


RN 122143-85-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, [2-(1-cyano-2-methoxyethenyl)phenyl]methyl ester (9CI) (CA INDEX NAME)



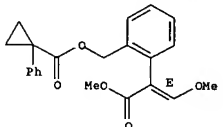
RN 122143-87-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-methyl-, [2-(1-cyano-2-methoxyethenyl)phenyl]methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



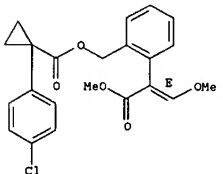
RN 122168-51-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-phenyl-, [2-[2-methoxy-1-(methoxycarbonyl)ethenyl]phenyl]methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 122168-52-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-(4-chlorophenyl)-, [2-[2-methoxy-1-(methoxycarbonyl)ethenyl]phenyl]methyl ester, (E)- (9CI) (CA INDEX NAME)

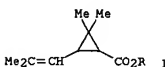
Double bond geometry as shown.



L7 ANSWER 64 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1989:231927 CAPLUS
 DOCUMENT NUMBER: 110:231927
 TITLE: Preparation of trans-chrysanthemic acid derivatives
 as materials for pyrethroid insecticides
 INVENTOR(S): Suzukamo, Gohfu; Sakito, Yoji; Fukao, Masami
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JF 63275542	A2	19881114	JP 1987-109514	19870430
JP 06017334	B4	19940309		

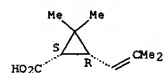
 OTHER SOURCE(S): MARPAT 110:231927
 GI



AB trans-I (R = H, C1-20 alkyl, cycloalkyl, aralkyl) are prepd. by isomerization of cis-I or its mixt. with trans-I with .gtoreq.1 Br compds. selected from acyl bromides, bromosilanes, S-bromides, and N-bromides in the presence of peroxides or azo compds. A soln. of 5.0 g cis-I (R = H) and AIBN in toluene was treated dropwise with a soln. of AcBr in toluene over 20 min at 80.degree. to give 4.6 g I (R = H) contg. 90.1% trans-isomer.
 IT 15259-78-6 26771-06-2
 RL: RCT (Reactant)
 (isomerization of)
 RN 15259-78-6 CAPLUS
 RN 26771-06-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1S,3R)- (9CI) (CA INDEX NAME)

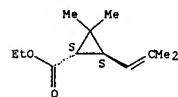
Absolute stereochemistry.

L7 ANSWER 64 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



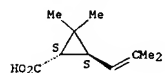
IT 827-90-7P, trans-Chrysanthemic acid 1802-02-4P
2259-14-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as material for pyrethroid insecticides)
RN 827-90-7 CAPLUS
RN 1802-02-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
ethyl
ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

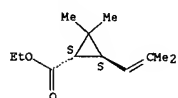


RN 2259-14-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
(1S,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



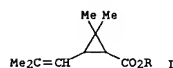
L7 ANSWER 65 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



L7 ANSWER 65 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1989:213139 CAPLUS
DOCUMENT NUMBER: 110:213139
TITLE: Preparation of trans-chrysanthemic acid
derivatives as
materials for insecticides
INVENTOR(S): Suzukamo, Gohfu; Sakito, Yoji; Fukao, Masami
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JXXXXF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63267743	A2	19881104	JP 1987-105788	19870427
JP 07017564	B4	19950301		

OTHER SOURCE(S): MARPAT 110:213139
GI



AB The title derivs. trans-I (R = H, C1-20 alkyl, cycloalkyl, aralkyl)
are
prepd. by isomerization of cis-I or its mixt. with trans-I with P
bromides
in the presence or absence of azo compds. A soln. of 5.0 g cis-I (R
= H)
and ALEN in toluene was treated dropwise with PBr3 at 80.degree.,
then
the
mixt. was stirred for 30 min to give 4.8 g I (R = H) contg. 89.1%
trans-isomer.

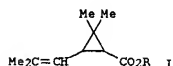
IT 15259-78-6
RL: RCT (Reactant)
(isomerization of, phosphorus bromides in)
RN 15259-78-6 CAPLUS
IT 827-90-7P, trans-Chrysanthemic acid 1802-02-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as material for pyrethroid insecticides)
RN 827-90-7 CAPLUS
RN 1802-02-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
ethyl
ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L7 ANSWER 66 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1989:213138 CAPLUS
DOCUMENT NUMBER: 110:213138
TITLE: Preparation of trans-chrysanthemic acid
derivatives as
materials for pyrethroid insecticides
INVENTOR(S): Suzukamo, Gohfu; Sakito, Yoji; Fukao, Masami
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JXXXXF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63267742	A2	19881104	JP 1987-100579	19870422
JP 06017333	B4	19940309		

OTHER SOURCE(S): MARPAT 110:213138
GI

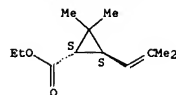


AB The title derivs. trans-I (R = H, C1-20 alkyl, cycloalkyl, aralkyl)
are
prepd. by isomerization of cis-I or its mixt. with trans-I with Br in
the
presence of peroxides or azo compds. A soln. of 2.0 g cis-I (R = H)
and
Bz2O2 in toluene was treated dropwise with a soln. of Br in CCl4 over
20
min at 80.degree., then the mixt. was stirred for 20 min to give 1.87
g I
(R = H) contg. 94.1% trans-isomer.

IT 15259-78-6
RL: RCT (Reactant)
(isomerization of)
RN 15259-78-6 CAPLUS
IT 827-90-7P, trans-Chrysanthemic acid 1802-02-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as material for pyrethroid insecticides)
RN 827-90-7 CAPLUS
RN 1802-02-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
ethyl
ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

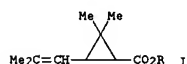
L7 ANSWER 66 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



L7 ANSWER 67 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1989:213127 CAPLUS
 DOCUMENT NUMBER: 110:213127
 TITLE: Method for racemization of optically active chrysanthemic acid or its ester
 INVENTOR(S): Suzukamo, Gohfu; Sakito, Yoji; Fukao, Masami; Hagiya,
 Koji
 PATENT ASSIGNER(S): Sumitomo Chemical Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 12 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 261824	A1	19880330	EP 1987-307802	19870903
EP 261824	B1	19900509		
R: BE, CH, DE, FR, GB, IT, LI, NL				
JP 63196541	A2	19880815	JP 1987-28581	19870210
JP 06088932	B4	19941109		
JP 63196542	A2	19880815	JP 1987-28582	19870210
JP 06047567	B4	19940622		
JP 01006234	A2	19890110	JP 1987-164802	19870630
JP 07017565	B4	19950301		
HU 44994	A2	19880530	HU 1987-3952	19870903
HU 202171	B	19910228		
US 4788323	A	19881129	US 1987-93234	19870904
PRIORITY APPLN. INFO.:			JP 1986-208768	19860904
			JP 1987-28581	19870210
			JP 1987-28582	19870210
			JP 1987-80791	19870331

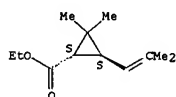
OTHER SOURCE(S): MARPAT 110:213127
 GI



AB The racemization of optically active chrysanthemic acid or its ester I (R = H, Cl-20 alkyl, cycloalkyl, or aralkyl), is effected by contacting I with HBr or a P bromide. This method may also be effected in the presence of a peroxide or azo compd. The method of the present invention can also be used for the conversion of racemic cis isomer or racemic mixt. of cis- and trans-chrysanthemic acid into the corresponding racemic trans-rich isomer. A mixt. of (+)-cis- 1.8, (-)-cis- 18.3, (+)-trans- 11.1, and (-)-trans-I (R = H) 68.8%, PhMe, and Me3COOH under N was treated dropwise

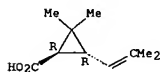
L7 ANSWER 67 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 with FBr3 with stirring at 20.degree. to give racemic I (R = H), part of which was converted to an isomeric mixt. of (+)-cis- 2.5, (-)-cis- 2.5, (+)-trans- 47.0, and (-)-trans-I (R = 2-octyl) 48.0%.
 IT 827-90-7P, trans-Chrysanthemic acid 1802-02-4P, Ethyl trans-Chrysanthemate 4638-92-0P 26771-11-9P 41641-25-2P 41641-26-3P 120522-99-8P 120523-00-4P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, as insecticide intermediate)
 RN 827-90-7 CAPLUS
 RN 1802-02-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



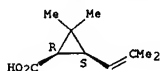
RN 4638-92-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1R,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 26771-11-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1R,3S)- (9CI) (CA INDEX NAME)

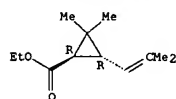
Absolute stereochemistry.



RN 41641-25-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl

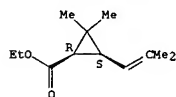
L7 ANSWER 67 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 ester, (1R,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



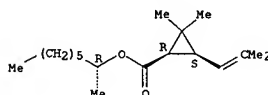
RN 41641-26-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl ester, (1R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



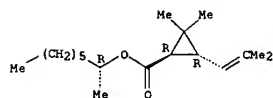
RN 120522-99-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1-methylheptyl ester, [1R-[1.alpha.(R*),3.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



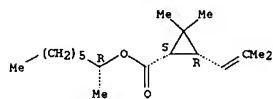
RN 120523-00-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1-methylheptyl ester, [1R-[1.alpha.(R*),3.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



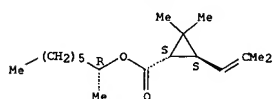
IT 120523-01-5P 120523-02-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as intermediate for insecticides)
 RN 120523-01-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 1-methylheptyl ester, [1S-[1.alpha.(S*),3.alpha.]]- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



RN 120523-02-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 1-methylheptyl ester, [1S-[1.alpha.(S*),3.beta.]]- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.

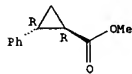


IT 2259-14-5, (-)-trans-Chrysanthemic acid 15259-78-6,
 cis-Chrysanthemic acid 26771-06-2
 RL: RCT (Reactant)
 (racemization of)
 RN 2259-14-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 (1S,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

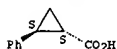
L7 ANSWER 68 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1989:213094 CAPLUS
 DOCUMENT NUMBER: 110:213094
 TITLE: Convenient synthesis of chiral trans-2-
 phenylcyclopropanecarboxylic acid
 AUTHOR(S): Cho, Nam Sook; Shin, Dae Hyun; Lee, Chong Chul;
 Ra, Do
 CORPORATE SOURCE: Young
 Coll. Nat. Sci., Chungnam Natl. Univ., Chungnam,
 302-764, S. Korea
 SOURCE: Bull. Korean Chem. Soc. (1988), 9(4), 195-8
 CODEN: BKCSDE; ISSN: 0253-2964
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB (-)-(1R,2R) and (+)-(1S,2S)-menthyl
 trans-2-phenylcyclopropanecarboxylates
 have been synthesized with the aid of chiral Cu(II) complex
 catalyst by the addn. reaction of l-menthyl diazoacetate to
 styrene. The yield was 75%, with the purity of trans isomer over
 95% and
 the optical purity of 95%.
 IT 10488-03-6P 23020-15-7P
 RL: RCT (Reactant); PREP (Preparation)
 (chiral synthesis of)
 RN 10488-03-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, methyl ester, (1R,2R)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.

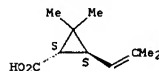


RN 23020-15-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, (1S,2S)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry. Rotation (+).

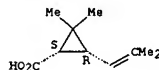


IT 105367-36-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and ester hydrolysis of)
 RN 105367-36-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2S,SR)-5-methyl-2-(1-
 methylethyl)cyclohexyl ester, (1S,2S)- (9CI) (CA INDEX NAME)

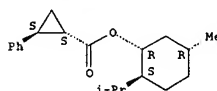


RN 15259-78-6 CAPLUS
 RN 26771-06-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 (1S,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

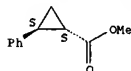


L7 ANSWER 68 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 Absolute stereochemistry.



IT 16205-72-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 16205-72-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, methyl ester, (1S,2S)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 69 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1989:172716 CAPLUS
DOCUMENT NUMBER: 110:172716
TITLE: Semicorrin metal complexes as enantioselective
cyclopropane formation from olefins with diazo
compounds catalyzed by chiral

(semicorrinato)copper

complexes
Fritschi, Hugo; Leutenegger, Urs; Pfaltz, Andreas
CORPORATE SOURCE: Lab. Org. Chem., Eidg. Tech. Hochsch., Zurich,
CH-8092, Switz.
SOURCE: Helv. Chim. Acta (1988), 71(6), 1553-65
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 110:172716

AB Copper complexes of chiral, C2-sym. semicorrin ligands are efficient
catalysts for the cyclopropane formation from olefins with diazo
compds. In the presence of 1 mol-% of catalyst, alkyl
diazoacetates reacted smoothly with terminal olefins such as styrene,
butadiene, and 1-heptene to give the corresponding optically active
cyclopropanecarboxylic acid derivs. With one of the catalysts,
enantioselectivities up to 97% ee were obtained. Usually, the

reactions

were carried out using bis(semicorrinato)copper(II) complexes as
precatalysts. In order to produce active catalyst, these
complexes had to be activated first by heating in the presence of
diazoacetate or by treatment with phenylhydrazine. Expts. with
(semicorrinato)copper(I) complexes, prep. in situ from copper(I)
tert-butoxide suggest that the actual catalyst is a
[mono(semicorrinato)]copper(I).

IT 105251-55-6P 105367-34-8P 105367-41-7P

120047-37-2P 120143-42-2P

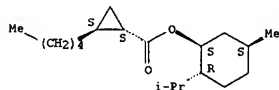
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and acid hydrolysis of)

RN 105251-55-6 CAPLUS

CN Cyclopropanecarboxylic acid, 2-pentyl-, 5-methyl-2-(1-
methylethyl)cyclohexyl ester, [1S-

[1.alpha.(1R*,2R*),2.beta.,5.alpha.]]-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

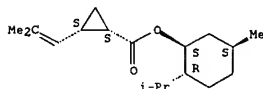


RN 105367-34-8 CAPLUS

CN Cyclopropanecarboxylic acid, 2-phenyl-, 1,1-dimethylethyl ester,
(1S,2S)-

(9CI) (CA INDEX NAME)

L7 ANSWER 69 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



IT 23020-15-7P 23020-18-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and esterification of)

RN 23020-15-7 CAPLUS

CN Cyclopropanecarboxylic acid, 2-phenyl-, (1S,2S)- (9CI) (CA INDEX
NAME)

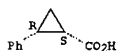
Absolute stereochemistry. Rotation (+).



RN 23020-18-0 CAPLUS

CN Cyclopropanecarboxylic acid, 2-phenyl-, (1S,2R)- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.



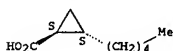
IT 120143-47-7P 120143-48-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and esterification of, with octanol)

RN 120143-47-7 CAPLUS

CN Cyclopropanecarboxylic acid, 2-pentyl-, (1S-trans)- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.

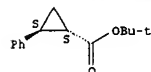


RN 120143-48-8 CAPLUS

CN Cyclopropanecarboxylic acid, 2-pentyl-, (1S-cis)- (9CI) (CA INDEX
NAME)

L7 ANSWER 69 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

Absolute stereochemistry. Rotation (+).

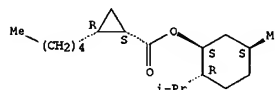


RN 105367-41-7 CAPLUS

CN Cyclopropanecarboxylic acid, 2-pentyl-, 5-methyl-2-(1-
methylethyl)cyclohexyl ester, [1S-

[1.alpha.(1R*,2S*),2.beta.,5.alpha.]]-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

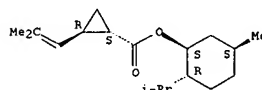


RN 120047-37-2 CAPLUS

CN Cyclopropanecarboxylic acid, 2-(2-methyl-1-propenyl)-,
5-methyl-2-(1-methylethyl)cyclohexyl ester, [1S-

[1.alpha.(1R*,2S*),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 120143-42-2 CAPLUS

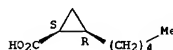
CN Cyclopropanecarboxylic acid, 2-(2-methyl-1-propenyl)-,
5-methyl-2-(1-methylethyl)cyclohexyl ester, [1S-

[1.alpha.(1R*,2R*),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 69 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

Absolute stereochemistry.



IT 16205-72-4P 34703-00-9P 34716-60-4P

53187-86-3P 67528-63-6P 77210-35-6P

105251-54-5P 105367-35-9P 105367-36-0P

105367-37-1P 105367-38-2P 105367-39-3P

105367-40-6P 120047-38-3P 120047-39-4P

120143-38-6P 120143-39-7P 120143-41-1P

120143-43-3P 120143-44-4P 120143-45-5P

120143-46-6P 120143-49-9P 120143-50-2P

120143-51-3P

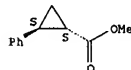
RL: SPN (Synthetic preparation); PREP (Preparation)

RN 16205-72-4 CAPLUS

CN Cyclopropanecarboxylic acid, 2-phenyl-, methyl ester, (1S,2S)- (9CI)
(CA

INDEX NAME)

Absolute stereochemistry.

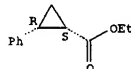


RN 34703-00-9 CAPLUS

CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1S,2R)- (9CI)
(CA

INDEX NAME)

Absolute stereochemistry. Rotation (+).

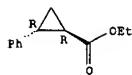


RN 34716-60-4 CAPLUS

CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1R,2R)- (9CI)
(CA

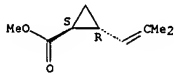
INDEX NAME)

Absolute stereochemistry. Rotation (-).



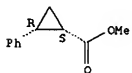
RN 53187-86-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(2-methyl-1-propenyl)-, methyl ester, (1S-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



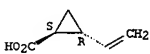
RN 67528-63-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, methyl ester, (1S-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 77210-35-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-ethenyl-, (1S,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

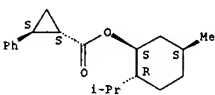


RN 105251-54-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2-ethenyl-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, [1S-[1.alpha.(1R*,2S*),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

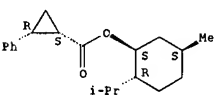
L7 ANSWER 69 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
methylethyl)cyclohexyl ester, (1S,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



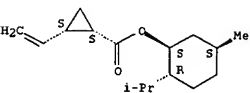
RN 105367-39-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1S,2R,5S)-5-methyl-2-(1-methylethyl)cyclohexyl ester, (1S,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



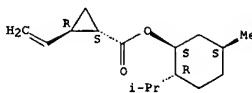
RN 105367-40-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-ethenyl-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, [1S-[1.alpha.(1R*,2R*),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



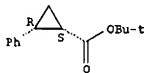
RN 120047-38-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-pentyl-, methyl ester, (1S-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



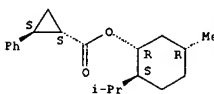
RN 105367-35-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, 1,1-dimethylethyl ester, (1S,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



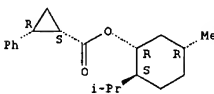
RN 105367-36-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2S,5R)-5-methyl-2-(1-methylethyl)cyclohexyl ester, (1S,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



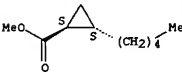
RN 105367-37-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2S,5R)-5-methyl-2-(1-methylethyl)cyclohexyl ester, (1S,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



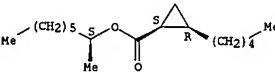
RN 105367-38-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1S,2R,5S)-5-methyl-2-(1-

L7 ANSWER 69 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



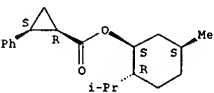
RN 120047-39-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-pentyl-, 1-methylheptyl ester, [1S-[1.alpha.(R*),2.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



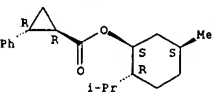
RN 120143-38-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1S,2R,5S)-5-methyl-2-(1-methylethyl)cyclohexyl ester, (1R,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



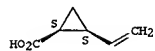
RN 120143-39-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1S,2R,5S)-5-methyl-2-(1-methylethyl)cyclohexyl ester, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



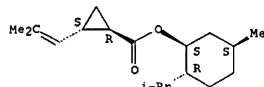
RN 120143-41-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-ethenyl-, (1S-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



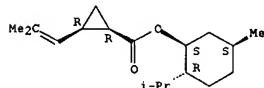
RN 120143-43-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(2-methyl-1-propenyl)-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, [1S-[1.alpha.(1S*,2R*),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



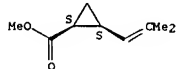
RN 120143-44-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(2-methyl-1-propenyl)-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, [1S-[1.alpha.(1S*,2S*),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 120143-45-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(2-methyl-1-propenyl)-, methyl ester, [1S-cis]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

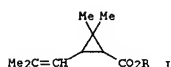


RN 120143-46-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-pentyl-, methyl ester, [1S-cis]- (9CI) (CA INDEX NAME)

L7 ANSWER 70 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1989:135529 CAPLUS
DOCUMENT NUMBER: 110:135529
TITLE: Method for racemization of optically active chrysanthemic acid or its esters
INVENTOR(S): Suzukamo, Gohfus; Sakito, Yoji; Fukao, Masami
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

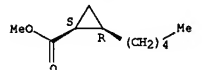
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 282221	A2	19880914	EP 1988-301792	19880301
EP 282221	A3	19880921		
EP 282221	B1	19920115		
R: BE, CH, DE, FR, GB, IT, LI, NL				
JP 63218641	A2	19880912	JP 1987-53519	19870309
JP 05086941	B4	19931214		
JP 63238037	A2	19881004	JP 1987-73355	19870326
JP 05087057	B4	19931215		
HU 46879	A2	19881228	HU 1988-1122	19880308
HU 203067	B	19910528		
US 4820864	A	19890411	US 1988-166014	19880309
JP 01258638	A2	19891016	JP 1988-141175	19880607
JP 06088935	B4	19941109		

PRIORITY APPLN. INFO.:
JP 1987-53519 19870309
JP 1987-73355 19870326
JP 1987-145467 19870610
JP 1987-306917 19871203
OTHER SOURCE(S): CASREACT 110:135529; HARPAT 110:135529
GI



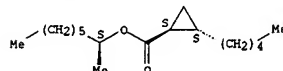
AB The title compds. (I; R = H, C1-20 alkyl, C3-20 cycloalkyl, C7-20 aralkyl) were racemized by contacting them with .gtoreq.1 of the following: a carboxylic acid bromide, a Si bromide, an S-bromine compd., and N-bromine compd., a halobromine compd., or a mercaptan, and in the presence of an azo compd. or peroxide. In manuf. of pyrethroid insecticides the trans esters have higher insecticidal activity than the cis forms, and the (+) forms have exceedingly higher activity than the corresponding (-) forms

Absolute stereochemistry.



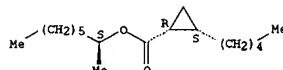
RN 120143-49-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-pentyl-, 1-methylheptyl ester, [1S-[1.alpha.(R*),2.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



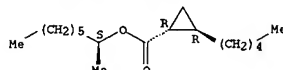
RN 120143-50-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-pentyl-, 1-methylheptyl ester, [1R-[1.alpha.(S*),2.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



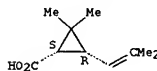
RN 120143-51-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-pentyl-, 1-methylheptyl ester, [1R-[1.alpha.(S*),2.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



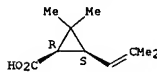
L7 ANSWER 70 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
(no data). I (R = H) (10.0 g), comprising (+)-cis- 1.8, (-)-cis- 17.6, (+)-trans- 10.1, and (-)-trans- 70.5%, and 97 mg azobisisobutyronitrile were dissolved in 20 mL PhMe and 0.48 g Br in CCl4 was added dropwise over 15 min at 80.degree. to give 8.73 g of a product mixt. of I (R = H) comprising (+)-cis- 3.1, (-)-cis- 3.2, (+)-trans- 44.5, and (-)-trans- 49.2%.
IT 26771-06-2P 26771-11-9P
RL: FORM (Formation, nonpreparative); PREP (Preparation) (formation of, in racemization of chrysanthemate stereoisomer)
RN 26771-06-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1S,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



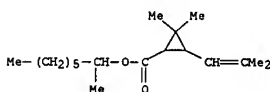
RN 26771-11-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 119479-62-8P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

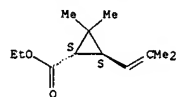
RN 119479-62-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1-methylheptyl ester (9CI) (CA INDEX NAME)



IT 827-90-7P 1802-02-4P 4638-92-0P
27335-32-6P 41641-25-2P

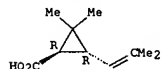
L7 ANSWER 70 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, by racemization of stereoisomer, **catalysts** for)
 RN 827-90-7 CAPLUS
 RN 1802-02-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 ethyl ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



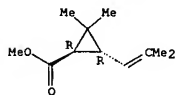
RN 4638-92-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 (1R,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 27335-32-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 methyl ester, (1R,3R)- (9CI) (CA INDEX NAME)

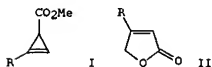
Absolute stereochemistry.



RN 41641-25-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 ethyl ester, (1R,3R)- (9CI) (CA INDEX NAME)

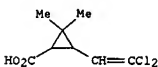
Absolute stereochemistry.

L7 ANSWER 71 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1989;7640 CAPLUS
 DOCUMENT NUMBER: 110;7640
 TITLE: Regioselective catalytic addition of proton
 donors to
 1-alkyl-3-cyclopropenecarboxylates. 2. Catalytic
 reaction of methyl esters of 1-alkyl-3-
 cyclopropenecarboxylates with hydrogen halides
 and
 carboxylic acids
 AUTHOR(S): Shapiro, E. A.; Protopopova, M. N.; Nefedov, O.
 M.
 CORPORATE SOURCE: Inst. Org. Khim. im. Zelinskogo, Moscow, USSR
 SOURCE: Izv. Akad. Nauk SSSR, Ser. Khim. (1988), (4),
 800-6
 DOCUMENT TYPE: CODEN: IASKA6; ISSN: 0002-3353
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 110;7640
 GI



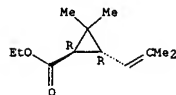
AB Title compds. I [R = Me, Pr, H(CH2)5] reacted with HX (X = Cl, Br)
 to give
 (E)- and (Z)-XCH:CRCH2CO2Me, while HF, F3CCO2H, Cl3CCO2H, and
 Cl2CHCO2H
 reacted with I to give furans II, without addn. The weaker acids
 R1CO2H

(R1 = H, ClCH2, vinyl, Me) gave (E)- and (Z)-R1CO2CH:CRCH2CO2Me.
 IT 55701-05-8
 RL: RCT (Reactant)
 (cleavage-addn. reaction of, with Me
 methylcyclopropenecarboxylate)
 RN 55701-05-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-
 (9CI) (CA INDEX NAME)



IT 117780-74-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

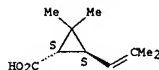
L7 ANSWER 70 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



IT 2259-14-5 15259-78-6
 RL: RCT (Reactant)
 (racemization of, **catalysts** for)

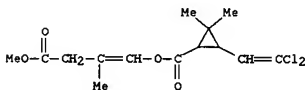
RN 2259-14-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 (1S,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



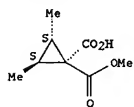
RN 15259-78-6 CAPLUS

L7 ANSWER 71 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RN 117780-74-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
 4-methoxy-2-methyl-4-oxo-1-butenyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 72 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1988:525190 CAPLUS
 DOCUMENT NUMBER: 109:125190
 TITLE: On the biosynthesis of ethylene: further evidence for
 stepwise enzymic cyclopropane ring cleavage
 AUTHOR(S): Baldwin, Jack E.; Adlington, Robert M.; Lajoie, Gilles
 A.; Lowe, Christopher; Baird, Pete D.; Prout, Keith
 CORPORATE SOURCE: Dyson Perrins Lab., Univ. Oxford, Oxford, OX1 3QY, UK
 SOURCE: J. Chem. Soc., Chem. Commun. (1988), (12), 775-7
 CODEN: JCCCAT; ISSN: 0022-4936
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 109:125190
 AB The conversion of a series of 2,3-dimethylated 1-aminocyclopropanecarboxylates by apple tissues into mixts. of cis- and trans-butenes is reported; the results are in accord with a stepwise enzymic mechanism of cyclopropane ring opening. The results support the view that ethylene synthetase operates via a stepwise and homolytic mechanism in which active site topol. directs the stereochem. course of the process.
 IT 116498-04-5P
 RL: RCT (Reactant); PREP (Preparation)
 (prepn. and hydrolysis and amination of)
 RN 116498-04-5 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2,3-dimethyl-, monomethyl ester, (1.alpha.,2.alpha.,3.beta.)- (9CI) (CA INDEX NAME)

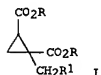
Relative stereochemistry.



IT 24506-42-1P 116498-03-4P
 RL: RCT (Reactant); PREP (Preparation)
 (prepn. and hydrolysis of)
 RN 24506-42-1 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2,3-dimethyl-, dimethyl ester, cis- (8CI, 9CI) (CA INDEX NAME)

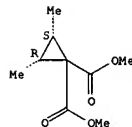
Relative stereochemistry.

L7 ANSWER 73 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1988:437522 CAPLUS
 DOCUMENT NUMBER: 109:37522
 TITLE: Carbon-13 labeling study of the coenzyme B12-dependent methylitaconate .dblarw.
 .alpha.-methylene-glutarate
 model rearrangement reaction and examination of potential cyclopropane intermediates
 AUTHOR(S): Dowd, Paul; Hershlane, Roger
 CORPORATE SOURCE: Dep. Chem., Univ. Pittsburgh, Pittsburgh, PA, 15260, USA
 SOURCE: J. Chem. Soc., Perkin Trans. 2 (1988), (1), 61-70
 CODEN: JCPKXH; ISSN: 0300-9580
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 109:37522
 GI



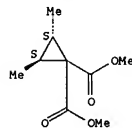
AB The model rearrangement mimicking the coenzyme B12-dependent, enzyme-catalyzed interconversion of .alpha.-methylene-glutaric acid with methylitaconic acid has been carried out with a carbon-13 label. This expt. demonstrates beyond doubt that the acrylate group is the migrating group in the model, as it is in the enzyme-catalyzed rearrangement. Expts. designed to probe the possible occurrence of cyclopropylmethyl intermediates in the model rearrangement are also described. To this end the cis- and trans-bromomethylcyclopropanedicarboxylic acids (I; R = H, R1 = Br) were prepd. An extensive series of expts. involving treatment of the acids and their Me and tetrahydropyranyl esters with vitamin B12s was carried out. No methylitaconic acid could be detected in any of the reaction mixts. However, .alpha.-methylene-glutaric acid and methylglutaconic acid were obsd. as the reaction products. cis-I (R = Me; R1 = OTs, I) were also examd. and yielded results analogous to those obtained with the bromides.
 IT 114644-54-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and bromination of)

L7 ANSWER 72 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



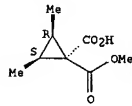
RN 116498-03-4 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2,3-dimethyl-, dimethyl ester, (2S-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



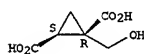
IT 116381-04-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and reactions of)
 RN 116381-04-5 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2,3-dimethyl-, monomethyl ester, (1.alpha.,2.alpha.,3.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



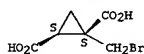
L7 ANSWER 73 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RN 114644-54-1 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, 1-(hydroxymethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

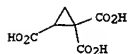


IT 114644-50-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and esterification of)
 RN 114644-50-7 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, 1-(bromomethyl)-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

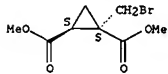


IT 702-90-9P, 1,1,2-Cyclopropanetricarboxylic acid
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and lactonization of)
 RN 702-90-9 CAPLUS
 CN 1,1,2-Cyclopropanetricarboxylic acid (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



IT 114644-51-8P 114644-50-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and reaction of, with vitamin B12s)
 RN 114644-51-8 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, 1-(bromomethyl)-, dimethyl ester, trans- (9CI) (CA INDEX NAME)

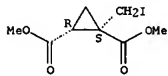
Relative stereochemistry.



L7 ANSWER 73 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

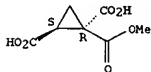
RN 114644-58-5 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1-(iodomethyl)-, dimethyl ester,
cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



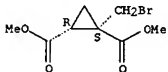
IT 114644-53-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and redn. of)
RN 114644-53-0 CAPLUS
CN 1,1,2-Cyclopropanetricarboxylic acid, 1-methyl ester, cis- (9CI) (CA
INDEX NAME)

Relative stereochemistry.



IT 114644-56-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn., derivatization, and reaction of, with vitamin B12s)
RN 114644-56-3 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1-(bromomethyl)-, dimethyl ester,
cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

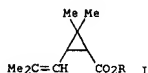


IT 114644-55-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn., esterification, and reaction of, with vitamin B12s)
RN 114644-55-2 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1-(bromomethyl)-, cis- (9CI) (CA
INDEX NAME)

L7 ANSWER 74 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1988:221334 CAPLUS
DOCUMENT NUMBER: 108:221334
TITLE: Method for racemization of chrysanthemic acid or
its esters using aluminum tribromide or boron
tribromide
INVENTOR(S): in the presence of azo compounds
Suzukamo, Gohfui; Fukao, Masami
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Bur. Pat. Appl., 7 pp.
CODEN: EFXKDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION: CASREACT 108:221334

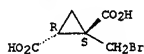
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 235940	A1	19870909	EP 1987-300842	19870130
EP 235940	B1	19900725		
R: BE, CH, DE, FR, GB, IT, LI, NL				
JP 62198643	A2	19870902	JP 1986-43442	19860227
JP 05086775	B4	19931214		
US 4723035	A	19880202	US 1987-10416	19870203
HU 43993	A2	19880128	HU 1987-760	19870226
HU 201293	B	19901028		

PRIORITY APPLN. INFO.: JP 1986-43442 19860227
OTHER SOURCE(S): CASREACT 108:221334
GI



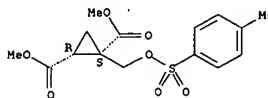
AB Chrysanthemic acid and esters (I; R = H, alkyl, cycloalkylalkyl,
aralkyl,
cycloalkyl, alkylcycloalkyl, alkoxy-cycloalkyl) were racemized using
B or A1 bromides in the presence of an azo comp. (-)-cis-Chrysanthemic
acid,
n-heptane, and (NMe2CN)2 were stirred at 80.degree. while BBr3 in
n-heptane was added over 30 min. GC of the (+)-2-octyl esters
showed the following products (+)-cis, 3.7%, (-)-cis, 6.6% (+)-trans, 44.6%, and
(-)-trans, 45.1%.
IT 64257-87-0P 64312-76-1P 84848-33-9P
114580-79-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 64257-87-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
octyl

L7 ANSWER 73 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
Relative stereochemistry.



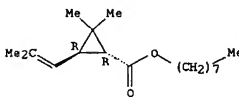
IT 114644-57-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn., iodination, and reaction of, with vitamin B12s)
RN 114644-57-4 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid,
1-[[[4-methylphenyl)sulfonyl]oxy]methy
l]-, dimethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



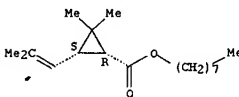
L7 ANSWER 74 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
ester, (1R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



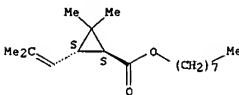
RN 64312-76-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
octyl
ester, (1R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 84848-33-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
octyl
ester, (1S-trans)- (9CI) (CA INDEX NAME)

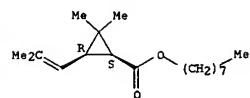
Absolute stereochemistry.



RN 114580-79-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
octyl
ester, cis- (9CI) (CA INDEX NAME)

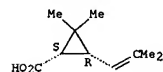
Relative stereochemistry.

L7 ANSWER 74 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

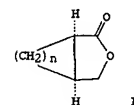


IT 26771-06-2, (-)-cis-Chrysanthemic acid
 RL: RCT (Reactant)
 (racemization of)
 RN 26771-06-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1S,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 75 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1988:37543 CAPLUS
 DOCUMENT NUMBER: 108:37543
 TITLE: Enzymes in organic synthesis. 39. Preparations of
 of
 via
 chiral cyclic acid-esters and bicyclic lactones
 stereoselective pig liver esterase catalyzed hydrolyses of cyclic meso diesters
 AUTHOR(S): Sabbioni, Gabriele; Jones, J. Bryan
 CORPORATE SOURCE: Dep. Chem., Univ. Toronto, Toronto, ON, M5S 1A1, Can.
 SOURCE: J. Org. Chem. (1987), 52(20), 4565-70
 CODEN: JOCEAH; ISSN: 0022-3263
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 108:37543
 GI

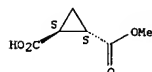


AB Pig liver esterase-catalyzed hydrolyses of meso-dimethyl cyclopropane-, cyclobutane-, and cyclohexane-1,2-dicarboxylates are enantiotopically specific, giving acid-ester products that are readily converted into .gamma.-lactones, e.g., I (n = 1-4) of >97% ee that are of value as chiral synthons. There is a dramatic change of stereospecificity on going from the cyclopropane and cyclobutane diesters to the cyclohexane substrate, with the cyclopentane diester hydrolysis representing the changeover point within the series. This reversal of enzyme stereospecificity is explicable in terms of a two binding-pocket active-site model. Hydrolyses of di-Me oxirane-1,2-dicarboxylate and of cyclopropane-1,2-diacetates are also stereoselective, giving products ee's of up to 30-70%.

IT 88335-96-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and hydrolysis of, acid from)
 RN 88335-96-0 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, monomethyl ester, (1S,2S)- (9CI) (CA INDEX NAME)

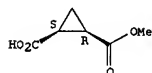
L7 ANSWER 75 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

Absolute stereochemistry.



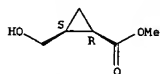
IT 88335-87-9P 110115-17-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and lactonization of)
 RN 88335-87-9 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, monomethyl ester, (1R,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 110115-17-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(hydroxymethyl)-, methyl ester, (1R,2S)- (9CI) (CA INDEX NAME)

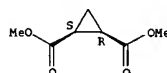
Absolute stereochemistry.



IT 826-34-6P, Dimethyl cis-cyclopropane-1,2-dicarboxylate
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and stereoselective hydrolysis of, by pig liver esterase, monoacid ester from)
 RN 826-34-6 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, dimethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L7 ANSWER 75 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

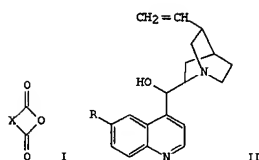


IT 14590-54-6P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 14590-54-6 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, (1S-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

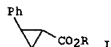


L7 ANSWER 76 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1988:5308 CAPLUS
 DOCUMENT NUMBER: 108:5308
 TITLE: Enantiotopic-group differentiation. Catalytic asymmetric ring-opening of prochiral cyclic anhydrides
 AUTHOR(S): with methanol, using Cinchona alkaloids Hiratake, Jun; Inagaki, Minoru; Yamamoto, Yukio; Oda,
 CORPORATE SOURCE: Junichi Inst. Chem. Res., Kyoto Univ., Uji, 611, Japan
 SOURCE: J. Chem. Soc., Perkin Trans. 1 (1987), (5), 1053-8
 DOCUMENT TYPE: CODEN: JCPRB4; ISSN: 0300-922X
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 108:5308
 GI



AB Asym. ring-opening of prochiral acid anhydrides I (X = CHMeCH₂CHMe, CH₂CHPhCH₂, etc.) with methanol has been achieved with a catalytic quantity of cinchona alkaloids II (R = H, OMe) (cinchonine, cinchonidine, quinine, quinidine, and their epi isomers). The optically active half-ester products HO₂CXCO₂Me were reduced to the optically active lactones. The ring-opening rate and the selectivity depend on the nature of the reaction medium, the polarity of solvent, and substrate concn. By selecting the reaction conditions, an enantiomeric excess of up to 70% has been obtained. The kinetic isotope effect and other mechanistic investigations suggest that the reaction proceeds via general-base catalysis by the quinuclidine moiety of II and that the relative configuration of the C-9 hydroxy group with respect to the C-8 quinuclidine amino function det. the selectivity of the reaction.
 IT 81873-51-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and redn. of)
 RN 81873-51-0 CAPLUS

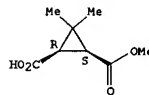
L7 ANSWER 77 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1987:597552 CAPLUS
 DOCUMENT NUMBER: 107:197552
 TITLE: A highly asymmetric synthesis of 2-phenylcyclopropanecarboxylic acid through chiral copper(II) complex catalyzed carbenoid reaction
 AUTHOR(S): Cho, Nam Sook; Shin, Dae Hyun; Lee, Chong Chul; Ra, Do
 CORPORATE SOURCE: Young Coll. Sci., Chungnam Natl. Univ., Daejeon, S. Korea
 SOURCE: Chungnam Kwahak Yonguchi (1985), 12(2), 131-40
 CODEN: CJOSDA
 DOCUMENT TYPE: Journal
 LANGUAGE: Korean
 GI



AB (-)-(1R,2R)-trans-Menthyl 2-phenylcyclopropanecarboxylate (I, R = menthyl) was synthesized with the aid of a chiral Cu(II) complex catalyst by the addn. reaction of N₂CHCO₂R (R = menthyl) with PhCH:CH₂. The yield was 80%, the purity of trans-compd. over 90% and optical purity 75%.
 IT 42916-14-3P 67528-70-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and esterification of)
 RN 42916-14-3 CAPLUS
 RN 67528-70-5 CAPLUS

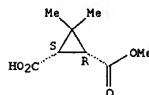
L7 ANSWER 76 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 CN 1,2-Cyclopropanedicarboxylic acid, 3,3-dimethyl-, monomethyl ester, (1S,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

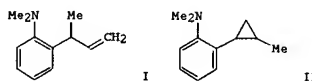


IT 81873-49-6P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 81873-49-6 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, 3,3-dimethyl-, monomethyl ester, (1R,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L7 ANSWER 78 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1987:597179 CAPLUS
 DOCUMENT NUMBER: 107:197179
 TITLE: Stereochemical analysis of an aromatic triplet di-.pi.-methane rearrangement
 AUTHOR(S): Scholl, Bernhard; Hansen, Hans Juergen
 CORPORATE SOURCE: Inst. Chim. Org., Univ. Fribourg, Fribourg, CH-1700, Switz.
 SOURCE: Helv. Chim. Acta (1986), 69(8), 1936-58
 CODEN: HCACAV; ISSN: 0018-019X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 107:197179
 GI

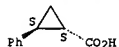


AB It is shown that (-)-(S)-N,N-dimethyl-2-(1'-methylallyl)aniline [(+)-(S)-I], on direct irradi. in MeCN at 20.degree., undergoes in its lowest-lying triplet state an arom. di-.pi.-methane (ADPM) rearrangement to yield (-)-(1'R,2'R)- and (+)-(1'R,2'S)-N,N-dimethyl-2-(2'-methylcyclopropyl)aniline [(+)-trans- and (+)-cis-II] in an initial trans/cis ratio of 4.71 +/- 0.14 and in optical yields of 28.8 +/- 5.2% and 15 +/- 5%, resp. The ADPM rearrangement of (-)-(S)-I to the trans- and cis-configured products occurs with a preponderance of the path leading to retention of configuration at the pivot atom [C(1')] in the reactant and C(2') in the products] for (-)-trans-II and to inversion of configuration for (+)-cis-II, resp. The results can be rationalized by assuming reaction paths which involve the occurrence of discrete 1,4- and 1,3-diradicals. A general anal. of such ADPM rearrangements which allows the classification of these photochem. reactions in terms of borderline cases is presented. It is found that the optical yields in these step-by-step rearrangements are detd. by the first step, i.e. by the disrotatory bond formation between C(2) of the arom. moiety and C(2') of the allylic side chain leading to the generation of the 1,4-diradicals. Moderation of the optical yields can occur in the ring closure of the 1,3-diradicals to the final products, which may take place with difference trans/cis-ratios for the individual 1,3-diradicals. Compds. (-)-trans-II

L7 ANSWER 78 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
as well as (+)-cis-II easily undergo the well-known photochem.
trans/cis-isomerization. It mainly leads to racemization. However,
a small part of the mols. shows trans/cis-isomerization with inversion
of configuration at C(1'), which is best explained by a photochem.
cleavage of the C(1')-C(3') bond.

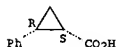
IT 23020-15-7P 23020-18-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and esterification with diazomethane)
RN 23020-15-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1S,2S)- (9CI) (CA INDEX
NAME)

Absolute stereochemistry. Rotation (+).



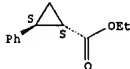
RN 23020-18-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1S,2R)- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.



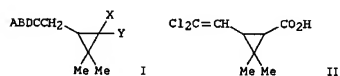
IT 34702-96-0P 34703-00-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and hydrolysis of)
RN 34702-96-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1S,2S)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 34703-00-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1S,2R)- (9CI)
(CA INDEX NAME)

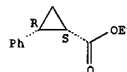
L7 ANSWER 79 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1987:515281 CAPLUS
DOCUMENT NUMBER: 107:115281
TITLE: Preparation of substituted cyclopropanes as
pyrethroid precursors
INVENTOR(S): Woo, Edmund F.; Laux, Joseph J.
PATENT ASSIGNER(S): Dow Chemical Co., USA
SOURCE: U.S., 7 pp;
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
PATENT NO. KIND DATE APPLICATION NO. DATE
US 4667050 A 19870519 US 1984-589798 19840315
OTHER SOURCE(S): CASREACT 107:115281
GI



AB The title compds. (I; A, B = CF₃, halo; D = halo; X = H, C2-5 acyl,
alkoxycarbonyl, cyano; Y = C2-5 alkoxycarbonyl) were prepd. as
pyrethroid precursors. H₂C:CHCMe₂OAc and NaCH(CO₂Me)₂ were refluxed in THF
contg. [(PhCH:CH)2CO]2Pd(0) treated with Ph₃P to give 86.1% of a 3:1 mixt.
of H₂C:CHCMe₂CH(CO₂Me)₂ and (MeO₂C)2CHCH₂CMe₂. This mixt. was
refluxed with CC14 contg. CuCl and Me₃CNH₂ to give 90% I (A = B = D = Cl; X = Y =
CO₂Me). The latter (8.7 g) was heated with aq. NaOH for 5 h and the
product decarboxylated upon distn. to give 5.31 g
(dichlorovinyl)cyclopropanecarboxylate II.

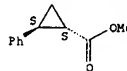
IT 64507-48-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and decarboxylation of)
RN 64507-48-8 CAPLUS
CN 1,1-Cyclopropanedicarboxylic acid,
3-(2,2-dichloroethenyl)-2,2-dimethyl-
(9CI) (CA INDEX NAME)

L7 ANSWER 78 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
Absolute stereochemistry. Rotation (+).



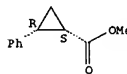
IT 16205-72-4P 67528-63-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and redn. of, with lithium aluminum hydride)
RN 16205-72-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, methyl ester, (1S,2S)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

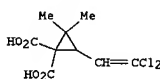


RN 67528-63-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, methyl ester, (1S-cis)- (9CI)
(CA INDEX NAME)

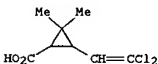
Absolute stereochemistry.



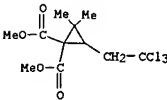
L7 ANSWER 79 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



IT 55701-05-8P 82817-08-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as pyrethroid precursor)
RN 55701-05-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-
(9CI) (CA INDEX NAME)

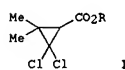


RN 82817-08-1 CAPLUS
CN 1,1-Cyclopropanedicarboxylic acid,
2,2-dimethyl-3-(2,2,2-trichloroethyl)-,
dimethyl ester (9CI) (CA INDEX NAME)



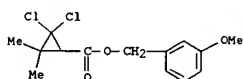
L7 ANSWER 80 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1987:478110 CAPLUS
 DOCUMENT NUMBER: 107:78110
 TITLE: New synthesis method of chlorine-containing pyrethroid insecticides
 INVENTOR(S): Gu, Kequan
 PATENT ASSIGNEE(S): Peop. Rep. China
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 7 pp.
 CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 85100500	A	19860813	CN 1985-100500	19850401

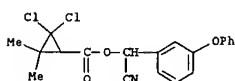


AB The title compds. [I; R = p-MeOC6H4CH2 (Q), m-PhOC6H4CH2, m-PhOC6H4CH(CN)] are prepd. via phase-transfer catalyzed cycloaddn. of Me2C:CHCO2Et with CHCl3 and esterification of I (R = H) with the appropriate aralkyltriethylammonium chlorides. A mixt. of Me2C:CHCOMe, PhCH2NMe3Cl (II), and aq. NaOCl was stirred with cooling for 3-4 h to give, after acidification with H2SO4, >60% Me2C:CHCO2H. Me2C:CHCO2Et was heated with CHCl3, II, and 50% aq. NaOH at 20-80.degree. for 5-7 h to give >60% I (R = Et). I (R = H) was refluxed with QNMe3Cl in toluene-aq. NaOH for 4-6 h to give >70% I (R = Q).
 IT 39939-04-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and decompn. of)
 RN 39939-04-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dichloro-3,3-dimethyl-, sodium salt (9CI) (CA INDEX NAME)

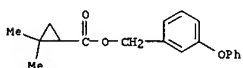
L7 ANSWER 80 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



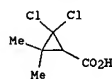
RN 55931-15-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dichloro-3,3-dimethyl-, cyano(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 65384-77-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-, (3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)

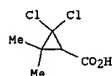


L7 ANSWER 80 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

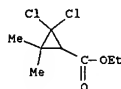


● Na

IT 39871-97-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and esterification of, with benzyltriethylammonium chlorides)
 RN 39871-97-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dichloro-3,3-dimethyl-, (9CI) (CA INDEX NAME)

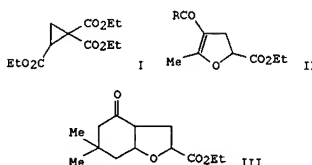


IT 39872-14-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and hydrolysis of)
 RN 39872-14-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dichloro-3,3-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



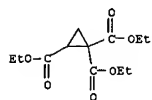
IT 42197-70-6P 55931-15-2P 65384-77-2P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, as pyrethroid insecticide)
 RN 42197-70-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dichloro-3,3-dimethyl-, (3-methoxyphenyl)methyl ester (9CI) (CA INDEX NAME)

L7 ANSWER 81 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1987:438945 CAPLUS
 DOCUMENT NUMBER: 107:38945
 TITLE: Alkylation of carbon-hydrogen acids in the presence of potassium carbonate. I. Alkylation of acids with ethyl .alpha.-bromoacrylate and its derivatives
 AUTHOR(S): Vardapetyan, A. A.; Khachatryan, D. S.; Panosyan, G.
 CORPORATE SOURCE: USSR
 SOURCE: Zh. Org. Khim. (1986), 22(11), 2262-6
 CODEN: ZORXAE; ISSN: 0514-7492
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 107:38945
 GI

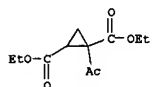


AB Treating CH2(CO2Et)2, MeCOCH2COR (R = Me, EtO), dimedone, or Me2CO with CH2:CHBrCO2Et and its derivs. in the presence of K2CO3 gave the corresponding cyclopropanes, e.g. I, and dihydrofurans, e.g., II and III.
 IT 839-39-4P 1991-42-0P 22811-70-7P 108967-76-6P 108967-77-7P 108967-80-2P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 839-39-4 CAPLUS
 CN 1,1,2-Cyclopropanetricarboxylic acid, triethyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

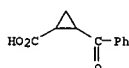
L7 ANSWER 81 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 1991-42-0 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1-acetyl-, diethyl ester (7CI, 9CI) (CA INDEX NAME)

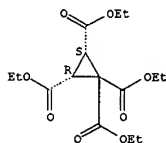


RN 22811-70-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-benzoyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



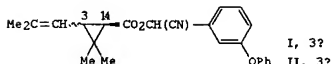
RN 108967-76-6 CAPLUS
CN 1,1,2,3-Cyclopropanetetracarboxylic acid, tetraethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 108967-77-7 CAPLUS

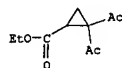
L7 ANSWER 82 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1987:33330 CAPLUS
DOCUMENT NUMBER: 106:33330
TITLE: Synthesis of optically active cyphenothrin-14C.
Carbon-14 labeling
AUTHOR(S): Kanamaru, Hiroshi; Kamada, Takeshi; Yoshitake, Akira;
CORPORATE SOURCE: Nakatsuka, Iwao
Takarazuka Res. Cent., Sumitomo Chem. Co., Ltd.,
Takarazuka, Japan
SOURCE: Radioisotopes (1986), 35(3), 103-8
CODEN: RAISAB; ISSN: 0033-8303
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 106:33330
GI



AB The syntheses of (1R)-cis-(I) and (1R)-trans-(carbonyl-14C) cyphenothrin (II) for use in metab. studies is described. Cyanation of N-chloromethylphthalimide with K14CN followed by acidic hydrolysis of the resulting [14C]cyanomethylphthalimide gave [1-14C]glycine-HCl in 65% yield. Esterification followed by condensation of Et [1-14C]diacetate, derived from Et [1-14C]glycinate-HCl, with 2,5-dimethyl-2,4-hexadiene in the presence of Cu catalyst and subsequent basic hydrolysis gave a mixt. of dl-cis- and dl-trans-[14C]chrysanthemic acids. The geometrical isomers were sepd. by silica gel column chromatog. and then optically resolved to give (1R)-cis- and (1R)-trans-[14C]chrysanthemic acids. Esterification of the acids with .alpha.-cyano-3-phenoxybenzyl bromide in the presence of Bu4N+Br- as phase transfer catalyst gave I and II.
IT 32511-06-1P 106091-84-3P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. and esterification with cyanophenoxybenzyl bromide)
RN 32511-06-1 CAPLUS
CN Cyclopropanecarboxylic-14C acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1R-trans)- (9CI) (CA INDEX NAME)

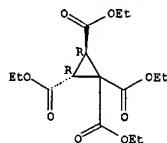
Absolute stereochemistry.

L7 ANSWER 81 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
CN Cyclopropanecarboxylic acid, 2,2-diacetyl-, ethyl ester (9CI) (CA INDEX NAME)

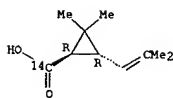


RN 108967-80-2 CAPLUS
CN 1,1,2,3-Cyclopropanetetracarboxylic acid, tetraethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

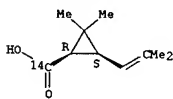


L7 ANSWER 82 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



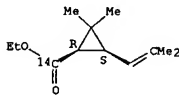
RN 106091-84-3 CAPLUS
CN Cyclopropanecarboxylic-14C acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



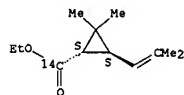
IT 105851-30-7P 105851-32-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and hydrolysis of)
RN 105851-30-7 CAPLUS
CN Cyclopropanecarboxylic-14C acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



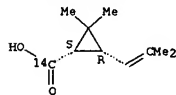
RN 105851-32-9 CAPLUS
CN Cyclopropanecarboxylic-14C acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



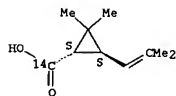
IT 62623-80-7P 62623-81-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and resolu. of)
 RN 62623-80-7 CAPLUS
 CN Cyclopropanecarboxylic-14C acid,
 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 62623-81-8 CAPLUS
 CN Cyclopropanecarboxylic-14C acid,
 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

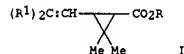


IT 105851-31-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 105851-31-8 CAPLUS
 CN Cyclopropanecarboxylic-14C acid,
 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 cyano(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)

L7 ANSWER 83 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1987:17957 CAPLUS
 DOCUMENT NUMBER: 106:17957
 TITLE: Cyclopropanecarboxylic acid salts and their
 application
 INVENTOR(S): Lindwurm, Ferenc; Muskovits, Jozsef
 PATENT ASSIGNEE(S): Chinoia Gyogyszer es Vegyeszeti Termek Gyara
 Rt.,
 SOURCE: Hung.
 Hung. Teljes, 14 pp.
 CODEN: HUKXBU
 DOCUMENT TYPE: Patent
 LANGUAGE: Hungarian
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

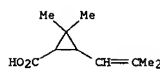
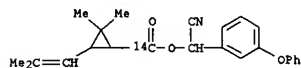
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
HU 37382	A2	19851228	HU 1983-3198	19830915
HU 210648	B	19950628		

GI



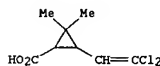
AB The cyclopropanecarboxylates I (R = Cl-4 alkyl; R1 = halo, Me) are
 prepd.
 as insecticides and fungicides (no data) by reacting a diazoacetate
 N2CHCO2R with a pentadiene (R1)2C:CHCH:CHMe2 in the presence of the
 Cu salt
 of a cycloalkancarboxylate, preferably I (R = Cu). Thus,
 Cl2C:CHCH:CHMe2
 was treated with N2CHCO2Et at 110.degree., in the presence of Cu
 permethrate (prepn. given), to give I (R = Et, R1 = Cl). I (R = Cu)
 are
 themselves pesticides.

IT 104119-56-4P 104119-57-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as catalyst and pesticide)
 RN 104119-56-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 copper(2+) salt (9CI) (CA INDEX NAME)



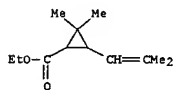
● 1/2 Cu(II)

RN 104119-57-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
 copper(2+) salt (9CI) (CA INDEX NAME)



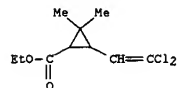
● 1/2 Cu(II)

IT 97-41-6P, Ethyl chrysanthemate 59609-49-3P, Ethyl
 permethrate
 RL: AGR (Agricultural use); BAC (Biological activity or effector,
 except
 adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (prepn. of, as pesticide)
 RN 97-41-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 ethyl
 ester (9CI) (CA INDEX NAME)

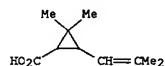


RN 59609-49-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
 ethyl
 ester (9CI) (CA INDEX NAME)

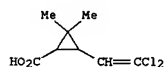
L7 ANSWER 83 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



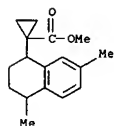
IT 10453-89-1, Chrysanthemic acid 55701-05-8
 RL: RCT (Reactant)
 (reaction of, with copper sulfate)
 RN 10453-89-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-
 (9CI) (CA INDEX NAME)



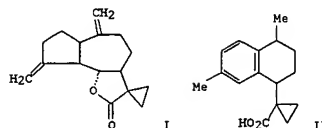
RN 55701-05-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethyl)-2,2-dimethyl-
 (9CI) (CA INDEX NAME)



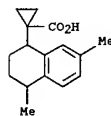
L7 ANSWER 84 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RN 103709-29-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-(1,2,3,4-tetrahydro-4,7-dimethyl-1-naphthalenyl)-, methyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 84 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1986:497712 CAPLUS
 DOCUMENT NUMBER: 105:97712
 TITLE: An acid-catalyzed molecular rearrangement of a
 guaiane
 AUTHOR(S): to a cadinane skeleton
 Kalsi, P. S.; Handa, Renu
 CORPORATE SOURCE: Dep. Chem., Punjab Agric. Univ., Ludhiana, 141
 004, India
 SOURCE: Indian J. Chem., Sect. B (1985), 24B(6), 657-8
 CODEN: IJSBDB; ISSN: 0376-4699
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 105:97712
 GI

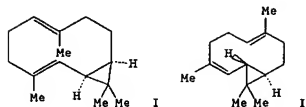


AB The spirocyclopropylguaianolide I, derived from dehydrocostus lactone, undergoes acid-catalyzed rearrangement to afford acid II with a cadinane skeleton.
 IT 103709-28-0P
 RL: FORM (Formation, nonpreparative); PREP (Preparation)
 (formation of, in rearrangement of guaianolide)
 RN 103709-28-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-(1,2,3,4-tetrahydro-4,7-dimethyl-1-naphthalenyl)- (9CI) (CA INDEX NAME)



IT 103709-29-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

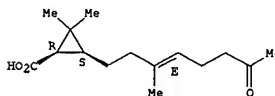
L7 ANSWER 85 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1986:109977 CAPLUS
 DOCUMENT NUMBER: 104:109977
 TITLE: Synthesis of bicyclogermacrene and lepidozene
 McMurry, John E.; Bosch, Gregory K.
 CORPORATE SOURCE: Dep. Chem., Cornell Univ., Ithaca, NY, 14853, USA
 SOURCE: Tetrahedron Lett. (1985), 26(18), 2167-70
 CODEN: TELEAY; ISSN: 0040-4039
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 104:109977
 GI



AB Bicyclogermacrene (I) and lepidozene (II) were synthesized by short routes from geranylacetone via Ti-induced cyclizations of cis- and

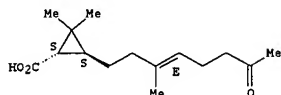
trans-2,2-dimethyl-3-(3-methyl-7-oxo-3E-octenyl)cyclopropanecarbaldehyde.
 IT 100693-04-7P 100762-50-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and esterification of)
 RN 100693-04-7 CAPLUS
 CN Cyclopropanecarboxylic acid,
 2,2-dimethyl-3-(3-methyl-7-oxo-3-octenyl)-,
 [1.alpha.,3.alpha.(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
 Double bond geometry as shown.

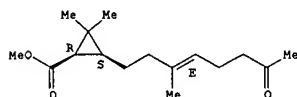


RN 100762-50-3 CAPLUS
 CN Cyclopropanecarboxylic acid,
 2,2-dimethyl-3-(3-methyl-7-oxo-3-octenyl)-,
 [1.alpha.,3.beta.(E)]- (9CI) (CA INDEX NAME)

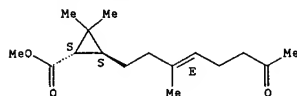
L7 ANSWER 85 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
Relative stereochemistry.
Double bond geometry as shown.



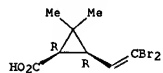
IT 100693-07-0P 100762-51-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and redn. of)
RN 100693-07-0 CAPLUS
CN Cyclopropanecarboxylic acid,
2,2-dimethyl-3-(3-methyl-7-oxo-3-octenyl)-,
methyl ester, [1.alpha.,3.alpha.(E)]- (9CI) (CA INDEX NAME)
Relative stereochemistry.
Double bond geometry as shown.



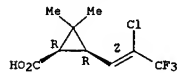
RN 100762-51-4 CAPLUS
CN Cyclopropanecarboxylic acid,
2,2-dimethyl-3-(3-methyl-7-oxo-3-octenyl)-,
methyl ester, [1.alpha.,3.beta.(E)]- (9CI) (CA INDEX NAME)
Relative stereochemistry.
Double bond geometry as shown.



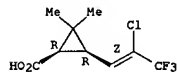
L7 ANSWER 86 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
acid (+,-)-IV (R1 = OH) and III were esterified by DCC in CH2Cl2 to
give
diastereomers of IV [R1 = (S)-OCH(CN)C6H4OPh-3].
IT 53179-78-5 55701-06-9 55701-07-0
68127-59-3 76023-99-9 88419-72-1
RL: RCT (Reactant)
(esterification of, by cyano(phenoxy)benzyl alc. enantiomer)
RN 53179-78-5 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-,
(1R,3R)- (9CI) (CA INDEX NAME)
Absolute stereochemistry. Rotation (+).



RN 55701-06-9 CAPLUS
RN 55701-07-0 CAPLUS
RN 68127-59-3 CAPLUS
CN Cyclopropanecarboxylic acid,
3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-
2,2-dimethyl-, (1R,3R)-rel- (9CI) (CA INDEX NAME)
Relative stereochemistry.
Double bond geometry as shown.



RN 76023-99-9 CAPLUS
CN Cyclopropanecarboxylic acid,
3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-
2,2-dimethyl-, (1R,3R)- (9CI) (CA INDEX NAME)
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



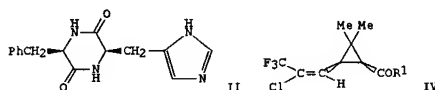
RN 88419-72-1 CAPLUS
CN Cyclopropanecarboxylic acid,
3-[2-chloro-2-(4-chlorophenyl)ethenyl]-2,2-
dimethyl- (9CI) (CA INDEX NAME)

L7 ANSWER 86 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1986:68624 CAPLUS
DOCUMENT NUMBER: 104:68624
TITLE: .alpha.-Substituted .alpha.-cyanomethyl alcohol
enantiomers
INVENTOR(S): Jackson, William Roy
PATENT ASSIGNEE(S): ICI Australia Ltd., Australia
SOURCE: Brit. UK Pat. Appl., 33 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2143823	A1	19850220	GB 1984-18611	19840720
GB 2143823	B2	19880323		
AU 8430331	A1	19850124	AU 1984-30331	19830722
AU 576322	B2	19880825		
ZA 8405371	A	19850227	ZA 1984-5371	19840711
JP 60042359	A2	19850306	JP 1984-149786	19840720
BR 8403630	A	19850709	BR 1984-3630	19840720
HU 36782	A2	19851028	HU 1984-2811	19840720
HU 198678	B	19891128		
IL 72459	A1	19880229	IL 1984-72459	19840720
CA 1258075	A1	19890801	CA 1984-459489	19840723
GB 2186280	A1	19870812	GB 1987-1511	19870123
GB 2186280	B2	19880323		

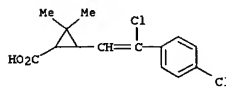
PRIORITY APPLN. INFO.: AU 1983-432 19830722
AU 1983-2758 19831218
GB 1984-18611 19840720

GI

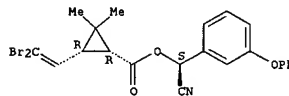


AB The title cyanohydrins RCH(CN)OH (I; R = alkenyl, alkynyl, aryl, heteroaryl) were prepd. by reaction of RCHO with HCN in the presence of cyclic dipeptide enantiomers below ambient temp. Thus, HCN added to 3-PhOC6H4CHO at ice bath temp. in the presence of piperazinedione II to give (S)-I (R = 3-PhOC6H4) (III) in 70% enantiomeric excess. II was prepd. in 4-5 steps from (R)-phenylalanine and (R)-histidine-HCl. I are useful intermediates in the prepn. of chiral esters and ethanolamines, particularly pyrethroids and aryethanolamines. For example, pyrethroid

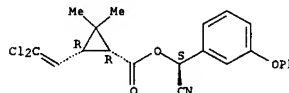
L7 ANSWER 86 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



IT 52918-63-5P 65731-84-2P 65732-07-2P
69770-44-1P 72204-43-4P 76703-62-3P
83860-31-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 52918-63-5 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-,
(S)-cyano(3-phenoxyphenyl)methyl ester, (1R,3R)- (9CI) (CA INDEX NAME)
Absolute stereochemistry.

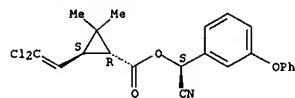


RN 65731-84-2 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
(S)-cyano(3-phenoxyphenyl)methyl ester, (1R,3R)- (9CI) (CA INDEX NAME)
Absolute stereochemistry. Rotation (+).

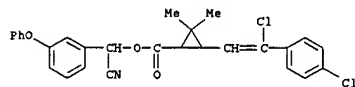


RN 65732-07-2 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
(S)-cyano(3-phenoxyphenyl)methyl ester, (1R,3S)- (9CI) (CA INDEX NAME)
Absolute stereochemistry.

L7 ANSWER 86 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

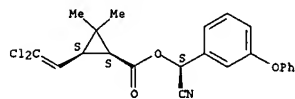


RN 69770-44-1 CAPLUS
CN Cyclopropanecarboxylic acid,
3-[2-chloro-2-(4-chlorophenyl)ethenyl]-2,2-
dimethyl-, cyano(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 72204-43-4 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
(S)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

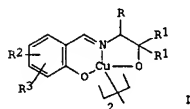


RN 76703-62-3 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-3,3-trifluoro-1-propenyl)-2,2-
dimethyl-, cyano(3-phenoxyphenyl)methyl ester, [1R-
dimethyl-, cyano(3-phenoxyphenyl)methyl ester, [1R-
[1.alpha.(S*),3.alpha.(2)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

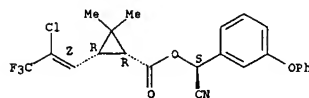
L7 ANSWER 87 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 103:71551 CAPLUS
DOCUMENT NUMBER: 103:71551
TITLE: Chiral copper complex and asymmetric synthesis of
cyclopropanecarboxylate derivatives using this
complex
INVENTOR(S): as catalyst
Aratani, Tadatoshi; Yoshihara, Hiroshi; Susukamo,
Gohfu
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Bur. Pat. Appl., 25 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 128012	A2	19841212	EP 1984-303662	19840531
EP 128012	A3	19850731		
EP 128012	B1	19861120		
R: DE, FR, GB, IT				
JP 59225194	A2	19841218	JP 1983-99955	19830603
JP 01053850	B4	19891115		
US 4552972	A	19851112	US 1984-614224	19840524
US 4603218	A	19860729	US 1985-760507	19850730
PRIORITY APPLN. INFO.:			JP 1983-99955	19830603
			US 1984-614224	19840524
OTHER SOURCE(S):		CASREACT 103:71551		
GI				



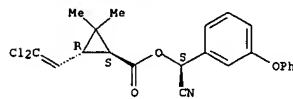
AB Chiral Cu complexes I [R = alkyl, aralkyl, R1 = alkoxyphenyl,
alkoxyalkylphenyl; R2, R3 = H, halo, alkyl, alkoxy, nitro, R2R3 may
form a
benzo ring] reacted with R4NH2 [R4 = aralkyl, alkyl, aryl] to form
chiral catalysts for the prepn. of optically active
chrysanthemates from N2CHCO2R5 (R5 = alkyl) and prochiral olefins.
Thus,
to a mixt. of 0.40 g (+)-I [R = PhCH2, R1 = 2,5-(BuO)Me3CC6H3, R2 =
R3 =
H], 14 g isobutylene, 0.3 mL PhNH2, and toluene was added 16.15 g
N2CHCO2Et in toluene at 40.degree. over 7 h while 33 g isobutylene
(g)
was blown into the soln. and the resulting mixt. heated to
80.degree. (to

L7 ANSWER 86 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



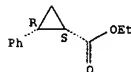
RN 83860-31-5 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
(S)-cyano(3-phenoxyphenyl)methyl ester, (1S,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



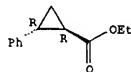
L7 ANSWER 87 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
Remove excess isobutylene) to give 16.5 g (+)-Et 2,2-
dimethylcyclopropanecarboxylate with 88.0% optical purity.
IT 946-38-3P 946-39-4P 1802-02-4P
7377-84-6P 59160-05-3P 59160-06-4P
60254-14-0P 63314-51-2P 94061-28-6P
96393-68-9P 97250-05-0P 97250-06-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and hydrolysis of)
RN 946-38-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1R,2S)-rel-
(9CI) (CA INDEX NAME)

Relative stereochemistry.



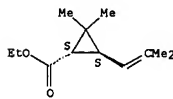
RN 946-39-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1R,2R)-rel-
(9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 1802-02-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
ethyl
ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

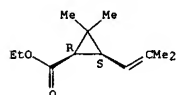
Relative stereochemistry.



RN 7377-84-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
ethyl
ester, (1R,3S)-rel- (9CI) (CA INDEX NAME)

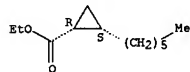
L7 ANSWER 87 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

Relative stereochemistry.



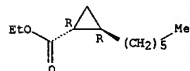
RN 59160-05-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-hexyl-, ethyl ester, (1R,2S)-rel- (9CI)
(CA INDEX NAME)

Relative stereochemistry.



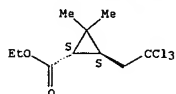
RN 59160-06-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-hexyl-, ethyl ester, (1R,2R)-rel- (9CI)
(CA INDEX NAME)

Relative stereochemistry.

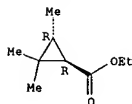


RN 60254-14-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2,2,2-trichloroethyl)-, ethyl ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

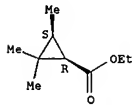


L7 ANSWER 87 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



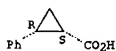
RN 97250-06-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3-trimethyl-, ethyl ester, cis-(-) (9CI)
(CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.



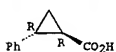
IT 939-89-9P 939-90-2P 51378-31-5P
59213-08-0P 63254-59-1P 63323-87-5P
63323-88-6P 63323-89-7P 68852-56-2P
68852-58-4P 68852-59-5P 74177-15-4P
97250-04-9P 97277-14-0P 97642-76-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 939-89-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 939-90-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2R)-rel- (9CI) (CA INDEX NAME)

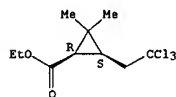
Relative stereochemistry.



L7 ANSWER 87 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

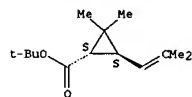
RN 63314-51-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2,2,2-trichloroethyl)-, ethyl ester, (1R,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



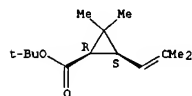
RN 94061-28-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1,1-dimethylethyl ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 96393-68-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1,1-dimethylethyl ester, (1R,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



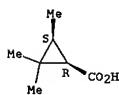
RN 97250-05-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3-trimethyl-, ethyl ester, trans-(-) (9CI) (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.

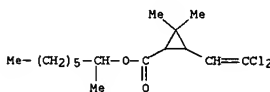
L7 ANSWER 87 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

RN 51378-31-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3-trimethyl-, cis-(-) (9CI) (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.

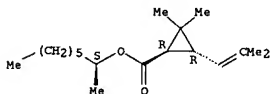


RN 59213-08-0 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, 1-methylheptyl ester (9CI) (CA INDEX NAME)



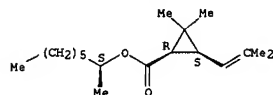
RN 63254-59-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1-methylheptyl ester, [1R-[1.alpha.(S*),3.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



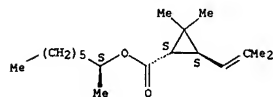
RN 63323-87-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1-methylheptyl ester, [1R-[1.alpha.(S*),3.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



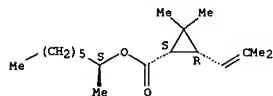
RN 63323-88-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1-methylheptyl ester, [1S-[1.alpha.(R*),3.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



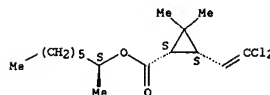
RN 63323-89-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1-methylheptyl ester, [1S-[1.alpha.(R*),3.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



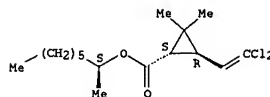
RN 68852-56-2 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, 1-methylheptyl ester, [1S-[1.alpha.(R*),3.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



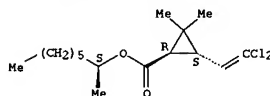
RN 68852-58-4 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, 1-methylheptyl ester, [1S-[1.alpha.(R*),3.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



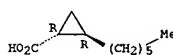
RN 68852-59-5 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, 1-methylheptyl ester, [1R-[1.alpha.(S*),3.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



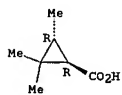
RN 74177-15-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-hexyl-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



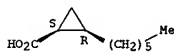
RN 97250-04-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3-trimethyl-, trans-(-)- (9CI) (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.



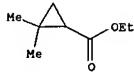
RN 97277-14-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-hexyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 97642-76-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-, ethyl ester, (+)- (9CI) (CA INDEX NAME)

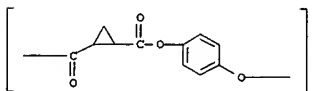
Rotation (+).



ACCESSION NUMBER: 1985:454529 CAPLUS
DOCUMENT NUMBER: 103:54529
TITLE: Polymers with cycloaliphatic units in the chain
AUTHOR(S): Bulacovschi, V.; Simionescu, C. I.
CORPORATE SOURCE: Dep. Macromol. Chem., Polytech. Inst. Iassi, Iassi, 6600, Rom.
SOURCE: J. Macromol. Sci., Chem. (1985), A22(5-7), 561-77
CODEN: JMCHBD; ISSN: 0022-233X
DOCUMENT TYPE: Journal
LANGUAGE: English

AB This paper describes the synthesis and characterization of some polycondensation polymers (polyamides and polyesters) which contain cycloaliph. units in their chains. Syntheses were carried out by low-temp. polycondensation techniques (interfacial and soln.) and also by the Yamazaki method in N-methylpyrrolidinone-pyridine soln. using tri-phosphite catalyst. The products obtained were characterized by elemental anal., IR spectroscopy, and x-ray diffraction. Thermoanal. data have shown very good thermal properties for all products, but esp. for the arom. cycloaliph. polyamides, which were stable up to 400.degree..

IT 83458-23-7P 83458-26-8P 83458-27-9P
97464-36-3P 97464-37-4P 97464-38-5P
97464-39-6P 97464-40-9P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and properties of)
RN 83458-25-7 CAPLUS
CN Poly[oxycarbonyl-1,4-phenyleneoxycarbonyl-1,2-cyclopropanediylcarbonyl], trans- (9CI) (CA INDEX NAME)

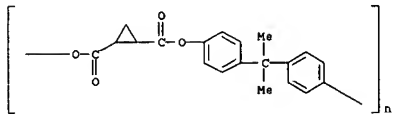


RN 83458-26-8 CAPLUS
CN Poly[(3-oxo-1(3H)-isobenzofuranylidene)-1,4-phenyleneoxycarbonyl-1,2-cyclopropanediylcarbonyloxy-1,4-phenylene], trans- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 83458-27-9 CAPLUS
CN Poly[oxycarbonyl-1,2-cyclopropanediylcarbonyloxy-1,4-phenylene(1-methylthylidene)-1,4-phenylene], trans- (9CI) (CA INDEX NAME)

L7 ANSWER 88 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

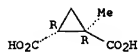


RN 97464-36-3 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1-methyl-, trans-, polymer with 2-methyl-1,4-benzenediamine (9CI) (CA INDEX NAME)

CM 1

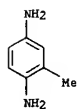
CRN 697-49-4
CMF C6 H8 O4
CDES 2:TRANS

Relative stereochemistry.



CM 2

CRN 95-70-5
CMF C7 H10 N2



RN 97464-37-4 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1-methyl-, trans-, polymer with 4,4'-methylenebis[benzenamine] (9CI) (CA INDEX NAME)

CM 1

CRN 697-49-4
CMF C6 H8 O4
CDES 2:TRANS

L7 ANSWER 88 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

CM 1

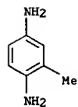
CRN 696-75-3
CMF C5 H6 O4
CDES 2:TRANS

Relative stereochemistry.



CM 2

CRN 95-70-5
CMF C7 H10 N2

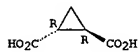


RN 97464-40-9 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, trans-, polymer with 4,4'-methylenebis[benzenamine] (9CI) (CA INDEX NAME)

CM 1

CRN 696-75-3
CMF C5 H6 O4
CDES 2:TRANS

Relative stereochemistry.



CM 2

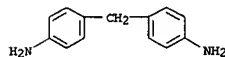
CRN 101-77-9
CMF C13 H14 N2

L7 ANSWER 88 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
Relative stereochemistry.



CM 2

CRN 101-77-9
CMF C13 H14 N2

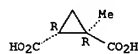


RN 97464-38-5 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1-methyl-, trans-, polymer with 1,4-benzenediamine (9CI) (CA INDEX NAME)

CM 1

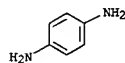
CRN 697-49-4
CMF C6 H8 O4
CDES 2:TRANS

Relative stereochemistry.



CM 2

CRN 106-50-3
CMF C6 H8 N2



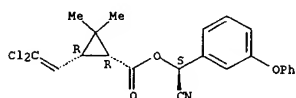
RN 97464-39-6 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, trans-, polymer with 2-methyl-1,4-benzenediamine (9CI) (CA INDEX NAME)

L7 ANSWER 89 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1985:5943 CAPLUS
 DOCUMENT NUMBER: 102:5943
 TITLE: Optically active cyanomethyl esters
 INVENTOR(S): Stoutamire, Donald W.; Tieman, Charles H.; Dong, Walter
 PATENT ASSIGNEE(S): Shell Oil Co., USA
 SOURCE: Eur. Pat. Appl., 42 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

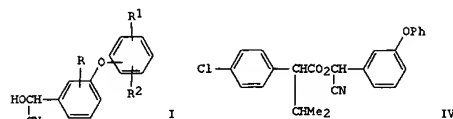
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 109681	A2	19840530	EP 1983-111562	19831118
EP 109681	A3	19860115		
EP 109681	B1	19920311		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
IN 161692	A	19880116	IN 1983-CA1346	19831102
IL 70155	A1	19890910	IL 1983-70155	19831107
US 4582646	A	19860415	US 1983-551547	19831114
US 4594196	A	19860610	US 1983-551548	19831114
BR 8306312	A	19840703	BR 1983-6312	19831117
DD 216453	A5	19841212	DD 1983-256815	19831117
EP 291626	A2	19881123	EP 1988-100324	19831118
EP 291626	A3	19890531		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
EP 312124	A2	19890419	EP 1988-119480	19831118
EP 312124	A3	19890913		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
EP 451927	A1	19911016	EP 1991-201451	19831118
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 73443	E	19920315	AT 1983-111562	19831118
FI 8304259	A	19840523	FI 1983-4259	19831121
DK 8305323	A	19840523	DK 1983-5323	19831121
NO 8304257	A	19840523	NO 1983-4257	19831121
AU 8321555	A1	19840531	AU 1983-21555	19831121
AU 577032	B2	19880915		
JP 59116256	A2	19840705	JP 1983-220485	19831121
JP 03033151	B4	19910516		
ES 527417	A1	19851101	ES 1983-527417	19831121
HU 37915	A2	19860328	HU 1983-4003	19831121
HU 200584	B	19900728		
RO 88828	B3	19860730	RO 1983-112615	19831121
CA 1263800	A1	19891205	CA 1983-441540	19831121
SU 1542412	A3	19900207	SU 1983-3675006	19831121
US 4723027	A	19880202	US 1986-822563	19860127
JP 02270852	A2	19901105	JP 1989-302306	19891122
JP 03238053	A2	19911023	JP 1990-164329	19900625
PRIORITY APPLN. INFO.:			US 1982-443513	19821122
			US 1982-443763	19821122
			US 1982-443764	19821122
			US 1983-551548	19831114
			EP 1983-111562	19831118

OTHER SOURCE(S): CASREACT 102:5943

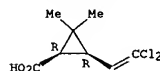
L7 ANSWER 89 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



L7 ANSWER 89 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 GI



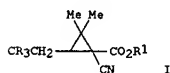
AB (S)-.alpha.-Cyano alcs. I (R, R1, R2 = H, halo, Cl-6 alkyl or alkoxy, halo-substituted Cl-6 alkyl or alkoxy) were prepd. by treating (un)substituted 3-PhOC6H4CHO (II) with an HCN source in the presence of an H2O-immiscible aprotic solvent and cyclo(D-Phe-D-His) (III) catalyst. Thus, II was treated with HCN in the presence of III in toluene to give 80% (S)-3-PhOC6H4CH(OH)CN. The latter was o-acylated with (S)-4-ClC6H4CH(CHMe2)COCl to give the (S,S)-isomer of ester IV.
 IT 55667-40-8
 RL: RCT (Reactant)
 (esterification of, with cyanophenoxymethyl alc.)
 RN 55667-40-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (1R,3R)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry. Rotation (+).



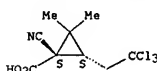
IT 65731-84-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 65731-84-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (S)-cyano(3-phenoxymethyl)methyl ester, (1R,3R)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry. Rotation (+).

L7 ANSWER 90 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1984:510412 CAPLUS
 DOCUMENT NUMBER: 101:110412
 TITLE: Cyclopropane compounds
 INVENTOR(S): Scholtes, Gary
 PATENT ASSIGNEE(S): Shell Internationale Research Maatschappij B. V., Neth.
 SOURCE: Brit. UK Pat. Appl., 6 pp.
 CODEN: BAXXDU
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2127012	A1	19840404	GB 1982-27086	19820922
US 4489005	A	19841218	US 1983-532413	19830915
PRIORITY APPLN. INFO.:			GB 1982-27086	19820922
OTHER SOURCE(S):			CASREACT 101:110412	



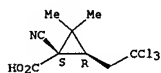
AB The acid-catalyzed cyclization of 4,6,6,6-tetrahalohexanoic acid derivs. gave cyclopropanecarboxylic acid derivs. I (each R is Cl, Br; R1 = H, metal cation, alkyl). A mixt. of Cl3CH2CHClCHMe2CH(CN)CO2Et and HCl was heated at approx. 100.degree. to give I (R = Cl, R1 = Et).
 IT 80436-36-8P 80441-85-6P 91814-46-9P
 91814-47-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 80436-36-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-cyano-2,2-dimethyl-3-(2,2,2-trichloroethyl)-, cis- (9CI) (CA INDEX NAME)
 Relative stereochemistry.



RN 80441-85-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-cyano-2,2-dimethyl-3-(2,2,2-trichloroethyl)-

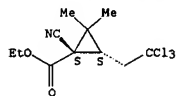
L7 ANSWER 90 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 , trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



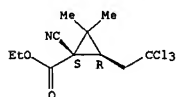
RN 91814-46-9 CAPLUS
 CN Cyclopropanecarboxylic acid,
 1-cyano-2,2-dimethyl-3-(2,2,2-trichloroethyl)-
 , ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 91814-47-0 CAPLUS
 CN Cyclopropanecarboxylic acid,
 1-cyano-2,2-dimethyl-3-(2,2,2-trichloroethyl)-
 , ethyl ester, trans- (9CI) (CA INDEX NAME)

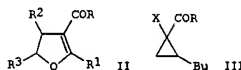
Relative stereochemistry.



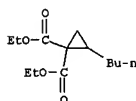
L7 ANSWER 91 OF 139 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1984:209194 CAPLUS
 DOCUMENT NUMBER: 100:209194
 TITLE: Oxidative addition of 1,3-dicarbonyl compounds to
 olefins in the presence of the manganese(III)
 acetate/lithium chloride system and synthesis of
 functionally substituted cyclopropanes
 AUTHOR(S): Vinogradov, M. G.; Dolinko, V. I.; Nikishin, G. I.
 CORPORATE SOURCE: Inst. Org. Khim., Moscow, USSR
 SOURCE: Izv. Akad. Nauk SSSR, Ser. Khim. (1984), (2),
 375-83
 CODEN: IASKA6; ISSN: 0002-3353

DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 100:209194
 GI

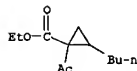


AB The title reaction of RCOCH2COR1 (R = R1 = Me, EtO; R = Me, R1 = OEt)
 with
 R2CH:CHR3 [R2 = H, R3 = H, Bu, Ph; R2R3 = (CH2)4] in AcOH gave mixts.
 of
 the corresponding RCOCH(COR1)CHR2CHClR3 [X = H, Cl(I)] and/or
 acyldihydrofurans II ratios which varied with R-R3. Cyclohexene also
 gave
 trans-1,2-dichlorocyclohexane and 3-acetoxycyclohexene under the
 reaction
 conditions. I cyclized in 50% aq. KOH-C6H6 contg. PhCH2NEt3+ Cl- or
 18-crown-6 or with Zn to give mono- and diacylcyclopropanes, e.g.,
 III (X
 = Cl, R1CO; same R, R1).
 IT 72435-01-9P 90284-95-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and cyclization of)
 RN 72435-01-9 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2-butyl-, diethyl ester (9CI) (CA
 INDEX NAME)

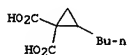


RN 90284-95-0 CAPLUS

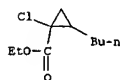
L7 ANSWER 91 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 CN Cyclopropanecarboxylic acid, 1-acetyl-2-butyl-, ethyl ester (9CI)
 (CA INDEX NAME)



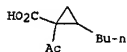
IT 72435-02-0P 90284-92-7P 90284-96-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 72435-02-0 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2-butyl- (9CI) (CA INDEX NAME)



RN 90284-92-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-butyl-1-chloro-, ethyl ester (9CI)
 (CA INDEX NAME)



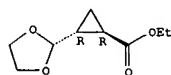
RN 90284-96-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-acetyl-2-butyl- (9CI) (CA INDEX NAME)



L7 ANSWER 92 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1984:208635 CAPLUS
 DOCUMENT NUMBER: 100:208635
 TITLE: Rearrangements of ylides generated from reactions
 of
 diazo compounds with allyl acetals and thioacetals
 by
 catalytic methods. Heteroatom acceleration of the
 [2,3]-sigmatropic rearrangement
 AUTHOR(S): Doyle, Michael P.; Griffin, John H.; Chinn,
 Mitchell
 S.; Van Leusen, Daan
 CORPORATE SOURCE: Dep. Chem., Hope Coll., Holland, MI, 49423, USA
 SOURCE: J. Org. Chem. (1984), 49(11), 1917-25
 CODEN: JOCEAH; ISSN: 0022-3263
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 100:208635
 AB Allyl acetals undergo ylide generation in Rh2(OAc)4-catalyzed
 reactions
 with diazo esters with subsequent prodn. of 2,5-dialkoxy-4-alkenoates
 by
 the [2,3]-sigmatropic rearrangement in moderate to good yields. The
 synthetic versatility of this class of polyfunctional compds. is
 examd.
 with selected transformations. Cyclopropanation and Stevens
 rearrangement
 compete with the [2,3]-sigmatropic rearrangement in certain cases,
 and the
 influence of reactant structure and reaction conditions on this
 competition is discussed. Comparative results with allyl ethers,
 which
 undergo cyclopropanation almost exclusively, demonstrate that
 heteroatom
 substitution on the allylic C atom accelerates ylide rearrangement.
 With
 dithioacetals such as 2-ethenyl-2-methyl-1,3-dithiane, the ylide
 generated
 from Rh2(OAc)4-catalyzed reactions of N2CHCO2Et undergoes
 [2,3]-sigmatropic rearrangement in competition with intramol.
 elimination,
 but without evidence of either cyclopropanation or Stevens
 rearrangement.
 Only when the [2,3]-sigmatropic rearrangement cannot occur
 competitively
 does the Stevens rearrangement become important in reactions with
 dithioacetals. In these examples the catalytic methodol. for ylide
 generation is advanced as an attractive alternative to base-promoted
 methodologies.
 IT 72184-71-5P 87986-35-4P 87986-36-5P
 87986-38-7P 87986-39-8P 87986-40-1P
 89709-86-4P 89709-94-4P 89709-98-8P
 89710-06-5P 89772-15-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 72184-71-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(1,3-dioxolan-2-yl)-, ethyl ester,
 trans-

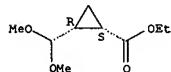
L7 ANSWER 92 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
(9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 87986-35-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(dimethoxymethyl)-, ethyl ester, cis-
(9CI) (CA INDEX NAME)

Relative stereochemistry.



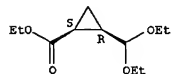
RN 87986-36-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(dimethoxymethyl)-, ethyl ester, trans-
(9CI) (CA INDEX NAME)

Relative stereochemistry.



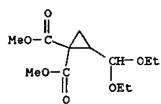
RN 87986-38-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(diethoxymethyl)-, ethyl ester, cis-
(9CI) (CA INDEX NAME)

Relative stereochemistry.



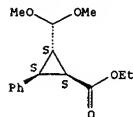
RN 87986-39-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(diethoxymethyl)-, ethyl ester, trans-
(9CI) (CA INDEX NAME)

L7 ANSWER 92 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



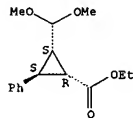
RN 89710-06-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(dimethoxymethyl)-3-phenyl-, ethyl ester, (1.alpha.,2.beta.,3.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



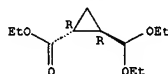
RN 89772-15-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(dimethoxymethyl)-3-phenyl-, ethyl ester, (1.alpha.,2.alpha.,3.beta.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



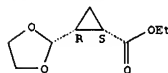
L7 ANSWER 92 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

Relative stereochemistry.

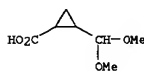


RN 87986-40-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(1,3-dioxolan-2-yl)-, ethyl ester, cis-
(9CI) (CA INDEX NAME)

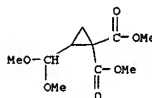
Relative stereochemistry.



RN 89709-86-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(dimethoxymethyl)- (9CI) (CA INDEX NAME)



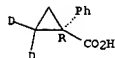
RN 89709-94-4 CAPLUS
CN 1,1-Cyclopropanedicarboxylic acid, 2-(dimethoxymethyl)-, dimethyl ester (9CI) (CA INDEX NAME)



RN 89709-98-8 CAPLUS
CN 1,1-Cyclopropanedicarboxylic acid, 2-(diethoxymethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

L7 ANSWER 93 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1984:64048 CAPLUS
DOCUMENT NUMBER: 100:64048
TITLE: Stereochemistry of the enzymatic ring opening of 1-aminocyclopropanecarboxylic acid
AUTHOR(S): Hill, Richard K.; Prakash, Shimoga R.; Wiesendanger, Rolf; Angst, Werner; Martinoni, Bruno; Arigoni, Duilio; Liu, Hung Wen; Walsh, Christopher T.
CORPORATE SOURCE: Dep. Chem., Univ. Georgia, Athens, GA, 30602, USA
SOURCE: J. Am. Chem. Soc. (1984), 106(3), 795-6
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Stereospecifically labeled samples of 1-aminocyclopropanecarboxylic acid (ACPC), a key intermediate in ethylene biosynthesis, were prepd. to examine the stereochem. of ring opening to .alpha.-ketobutyrate catalyzed by ACPC deaminase. The enantiomers of 2,2-dichloro-1-phenylcyclopropanecarboxylic acid were sep. converted to (R)- and (S)-[2,2-2H2]ACPC in a 5-step sequence, and an independent synthesis of the R antipode was realized in 12 steps beginning with Sharpless asym. epoxidn. of 3-hydroxymethyl-3-butenyl acetate. Upon enzymic deamination, (S)-[2,2-2H2]ACPC led to .alpha.-ketobutyrate labeled exclusively in the Me group, whereas the R enantiomer afforded product labeled only in the methylene group. These results demonstrated that ACPC deaminase specifically cleaves the C-C bond to the pro-S methylene group.
IT 88454-65-3P 88454-78-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (Prepn. and Curtius rearrangement of)
RN 88454-65-3 CAPLUS
CN Cyclopropane-2,2-d2-carboxylic acid, 1-phenyl-, (R)- (9CI) (CA INDEX NAME)

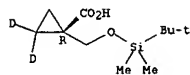
Absolute stereochemistry.



RN 88454-78-8 CAPLUS
CN Cyclopropane-2,2-d2-carboxylic acid, 1-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-, (R)- (9CI) (CA INDEX NAME)

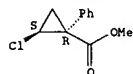
Absolute stereochemistry.

L7 ANSWER 93 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



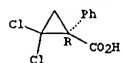
IT 88454-63-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and conversion to aldehyde of)
 RN 88454-63-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-chloro-1-phenyl-, methyl ester,
 (1R-cis)
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.

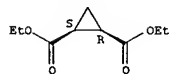


IT 88454-61-9
 RL: RCT (Reactant)
 (redn. of)
 RN 88454-61-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dichloro-1-phenyl-, (R)- (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.

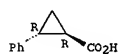


L7 ANSWER 94 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



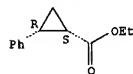
RN 939-90-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2R)-rel- (9CI) (CA INDEX
 NAME)

Relative stereochemistry.



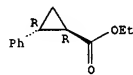
RN 946-38-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1R,2S)-rel-
 (9CI)
 (CA INDEX NAME)

Relative stereochemistry.



RN 946-39-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1R,2R)-rel-
 (9CI)
 (CA INDEX NAME)

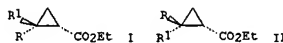
Relative stereochemistry.



RN 3999-55-1 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, diethyl ester, (1R,2R)-rel- (9CI)
 (CA INDEX NAME)

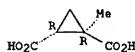
Relative stereochemistry.

L7 ANSWER 94 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1983:504822 CAPLUS
 DOCUMENT NUMBER: 99:104822
 TITLE: Palladium(II) acetate, an efficient catalyst
 for cyclopropanation reactions with ethyl
 diazoacetate
 AUTHOR(S): Majchrzak, Michal W.; Kotelko, Antoni; Lambert,
 Joseph
 B.
 CORPORATE SOURCE: Inst. Drug Res., Med. Acad., Lodz, 90 145, Pol.
 SOURCE: Synthesis (1983), (6), 469-70
 CODEN: SYNTBF; ISSN: 0039-7881
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 99:104822
 GI



AB Mixts. of cyclopropane isomers I and II (R = Ph, CO2Me, Ac, CO2Et; R1
 = H,
 Me) were obtained by the Pd(OAc)2-catalyzed reaction of N2CHCO2Et with
 RCR1:CH2. Thus, N2CHCO2Et in C6H6 was slowly added to PhCH:CH2 and
 Pd(OAc)2 in C6H6 at 40.degree. to give a 2:1 mixt. of II (R = Ph, R1
 = H)
 and I (R = Ph, R1 = H).
 IT 697-49-4P 710-43-0P 939-90-2P
 946-38-3P 946-39-4P 3999-55-1P
 13949-95-6P 13950-03-3P 13950-15-7P
 13950-18-0P 33769-98-1P 33769-99-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 697-49-4 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, 1-methyl-, trans- (8CI, 9CI) (CA
 INDEX NAME)

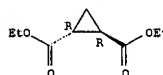
Relative stereochemistry.



RN 710-43-0 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, diethyl ester, (1R,2S)-rel- (9CI)
 (CA INDEX NAME)

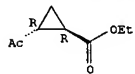
Relative stereochemistry.

L7 ANSWER 94 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



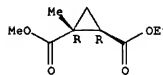
RN 13949-95-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-acetyl-, ethyl ester, (1R,2R)-rel-
 (9CI)
 (CA INDEX NAME)

Relative stereochemistry.



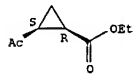
RN 13950-03-3 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, 1-methyl-, 2-ethyl 1-methyl ester,
 trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 13950-15-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-acetyl-, ethyl ester, (1R,2S)-rel-
 (9CI)
 (CA INDEX NAME)

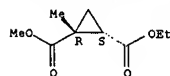
Relative stereochemistry.



RN 13950-18-0 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, 1-methyl-, 2-ethyl 1-methyl ester,
 cis- (9CI) (CA INDEX NAME)

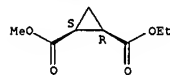
Relative stereochemistry.

L7 ANSWER 94 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



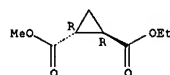
RN 33769-98-1 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, ethyl methyl ester, cis- (8CI, 9CI)
(CA INDEX NAME)

Relative stereochemistry.



RN 33769-99-2 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, ethyl methyl ester, trans- (8CI, 9CI)
(CA INDEX NAME)

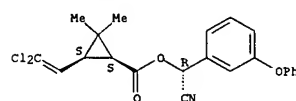
Relative stereochemistry.



L7 ANSWER 95 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

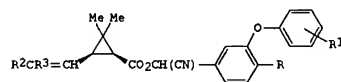
(prepn. of)
RN 67375-30-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L7 ANSWER 95 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1983:178808 CAPLUS
DOCUMENT NUMBER: 98:178808
TITLE: Cyanobenzyl cyclopropane carboxylates
INVENTOR(S): Wood, Derek Alexander
PATENT ASSIGNEE(S): Shell Internationale Research Maatschappij B. V., Neth.
SOURCE: Eur. Pat. Appl., 19 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

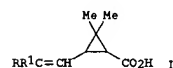
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 67461	A1	19821222	EP 1982-200551	19820506
EP 67461	B1	19850717		
R: BE, CH, DE, FR, GB, IT, LI, NL				
CA 1162561	A1	19840221	CA 1982-401877	19820428
US 4409150	A	19831011	US 1982-375998	19820507
DK 8202337	A	19821127	DK 1982-2337	19820524
DK 156828	B	19891009		
DK 156828	C	19900219		
JP 57200347	A2	19821208	JP 1982-86706	19820524
ZA 8203581	A	19830330	ZA 1982-3581	19820524
BR 8203010	A	19830510	BR 1982-3010	19820524
IN 158971	A	19870228	IN 1982-DE394	19820524
PRIORITY APPLN. INFO.:			GB 1981-16033	19810526
GI				



AB Esters I (R and R1 independently are H, halo; R2 and R3 independently are Cl, Br, Me), useful as insecticides and pesticides (no data), were prepd. from the resp. acids, .alpha.-cyanobenzyl benzenesulfonates, and catalysts (quaternary ammonium salts, macrocyclic polyethers). cis-3-(2,2-Dichlorovinyl)-2,2-dimethylcyclopropanecarboxylic acid was treated with 3-PhOC6H4CH(CN)O3SC6H4Me-4, Bu4N+ Br-, and K2CO3 at 70.degree. to give I (R = R1 = H, R2 = R3 = Cl).
IT 55701-06-9
RL: RCT (Reactant)
(esterification of, by .alpha.-cyanobenzyl tosylate deriv., catalysts for)
RN 55701-06-9 CAPLUS
IT 67375-30-8P
RL: SPN (Synthetic preparation); PREP (Preparation)

L7 ANSWER 96 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1983:126416 CAPLUS
DOCUMENT NUMBER: 98:126416
TITLE: Racemized cyclopropanecarboxylic acids or their derivatives
INVENTOR(S): Suzukamo, Gohfu; Fukao, Masami
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 14 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

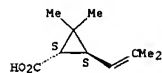
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 61880	A1	19821006	EP 1982-301469	19820322
EP 61880	B1	19850619		
R: CH, DE, FR, GB, IT, NL				
JP 57163341	A2	19821007	JP 1981-47818	19810330
JP 63051136	B4	19881013		
US 4485257	A	19841127	US 1982-359320	19820318
PRIORITY APPLN. INFO.:			JP 1981-47818	19810330
OTHER SOURCE(S):			CASREACT 98:126416	
GI				



AB Racemic cyclopropanecarboxylic acids I [R, R1 = H, Cl-4 alkyl; RR1 = (CH2)n, n = 3-5] or their anhydrides were prepd. by racemizing the corresponding optically active, particularly levorotatory, cyclopropanecarboxylic acid anhydrides with a Lewis acid, optionally hydrolyzing the racemized anhydrides. Thus, stirring 15.0 g (-)-trans-I (R = R1 = Me) anhydride, 35 g toluene, and 1.02 g iodine at 70.degree. 60 min. and then hydrolyzing the racemized anhydride with 20% aq. NaOH at 80.degree. for 3 h gave 12.75 g (+-)-trans-I (R = R1 = Me).
IT 2259-14-5
RL: RCT (Reactant)
(condensation of, with cyclopropanecarboxylic acid chloride deriv. in prepn. of acid anhydride)
RN 2259-14-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1S,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 96 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



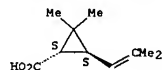
IT 705-16-8P 2935-23-1P

RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, by racemization of isomer mixts.)

RN 705-16-8 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
(1R,3R)-rel- (9CI) (CA INDEX NAME)

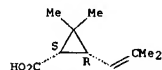
Relative stereochemistry.



RN 2935-23-1 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
(1R,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

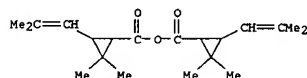


IT 85081-19-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and racemization of)

RN 85081-19-2 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
anhydride, [1S-[1.alpha.(1R*,3R*),3.beta.]]- (9CI) (CA INDEX NAME)

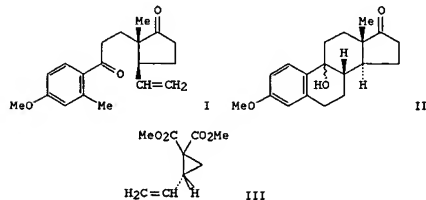


IT 10453-89-1

RL: RCT (Reactant)
(racemization of isomer mixts.)

RN 10453-89-1 CAPLUS

L7 ANSWER 97 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1983:107599 CAPLUS
DOCUMENT NUMBER: 98:107599
TITLE: Light-induced reactions. XVI. Syntheses of
natural substances with light. III. Asymmetric total
synthesis of 19-norsteroids via a photochemical key
reaction: enantiomerically pure target compounds
AUTHOR(S): Quinkert, Gerhard; Schwartz, Ulrich; Stark,
Herbert; Weber, Wolf Dietrich; Adam, Friedhelm; Baier,
Helmut;
CORPORATE SOURCE: Frank, Gudrun; Duerner, Gerd
Inst. Org. Chem., Univ. Frankfurt/Main,
Frankfurt/Main, D-6000, Fed. Rep. Ger.
SOURCE: Liebigs Ann. Chem. (1982), (11), 1999-2040
CODEN: LACHDL; ISSN: 0170-2041
DOCUMENT TYPE: Journal
LANGUAGE: German
GI

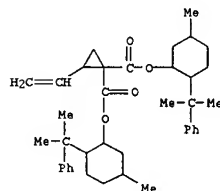


AB Enantiomerically pure estrone, 19-norandrost-4-ene-3,17-dione,
17.beta.-estradiol, and 19-nortestosterone were prepd. by total
syntheses via A-D ring condensations to give secosteroid AD moieties and
subsequent cyclization. The vinylcyclopentanone I was a key intermediate, which
underwent photochem. cyclization via an unstable o-quinodimethane to
give estratrienones II. The chiral cyclopropanedicarboxylate III was an
intermediate in the prepn. of I and was obtained with 95% optical
purity from (-)-8-phenylmethal malonate by successive cyclocondensation with
BrCH2CH:CHCH2Br, sapon., and esterification with CH2N2.
IT 83587-15-9P

L7 ANSWER 96 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-
(9CI)
(CA INDEX NAME)



L7 ANSWER 97 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and cyclocondensation of, with dibromobutene)
RN 83587-15-9 CAPLUS
CN 1,1-Cyclopropanedicarboxylic acid, 2-ethenyl-,
bis[5-methyl-2-(1-methyl-1-phenylethyl)cyclohexyl] ester,
[1R-[1.alpha.[R*(1R*,2S*,5R*)],2.beta.,5.alpha.
pha.]]- (9CI) (CA INDEX NAME)



IT 38259-73-3P

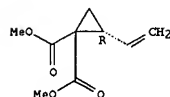
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and cyclocondensation, with di-Me methylmalonate)

RN 38259-73-3 CAPLUS

CN 1,1-Cyclopropanedicarboxylic acid, 2-ethenyl-, dimethyl ester, (2R)-
(9CI)

(CA INDEX NAME)

Absolute stereochemistry.



IT 84646-70-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and neutralization of)

RN 84646-70-8 CAPLUS

CN Strychnidin-10-one, 2,3-dimethoxy-, compd. with (R)-dimethyl
2-ethenyl-1,1-cyclopropanedicarboxylate (1:1) (9CI) (CA INDEX NAME)

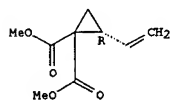
CH 1

CRN 38259-73-3

CHF C9 H12 O4

L7 ANSWER 97 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
CDES 1:R

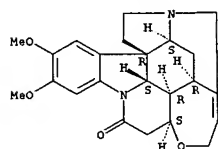
Absolute stereochemistry.



CM 2

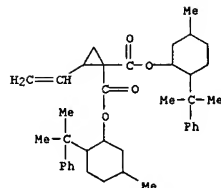
CRN 357-57-3
CMF C23 H26 N2 O4
CDES 4:1.STRYCHNIDINE

Absolute stereochemistry.



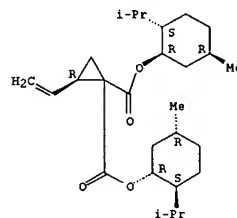
IT 53376-53-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and resoln. of)
RN 53376-53-7 CAPLUS
IT 83587-15-9P 84646-69-5P 84658-44-6P
84680-67-1P 84680-68-2P 84710-59-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and sapon. of)
RN 83587-15-9 CAPLUS
CN 1,1-Cyclopropanedicarboxylic acid, 2-ethenyl-,
bis[5-methyl-2-(1-methyl-1-phenylethyl)cyclohexyl] ester,
[1R-[1.alpha.[R* (1R*,2S*,5R*)],2.beta.,5.alpha.]
pha.]]- (9CI) (CA INDEX NAME)

L7 ANSWER 97 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



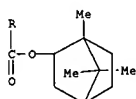
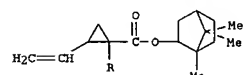
RN 84646-69-5 CAPLUS
CN 1,1-Cyclopropanedicarboxylic acid, 2-ethenyl-,
bis[1,1-(1R,2S,5R)-5-methyl-2-(1-methylethyl)cyclohexyl] ester, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

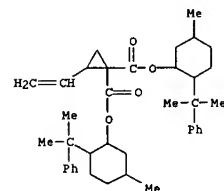


RN 84658-44-6 CAPLUS
CN 1,1-Cyclopropanedicarboxylic acid, 2-ethenyl-, bis[1,7,7-trimethylbicyclo[2.2.1]hept-2-yl] ester,
[1S-[1.alpha.,2.beta.[1(1R*,2S*,4R*),2S*],4.alpha.]]- (9CI) (CA INDEX NAME)

L7 ANSWER 97 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



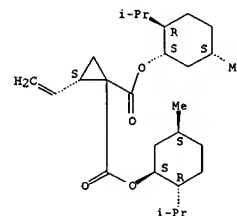
RN 84680-67-1 CAPLUS
CN 1,1-Cyclopropanedicarboxylic acid, 2-ethenyl-,
bis[5-methyl-2-(1-methyl-1-phenylethyl)cyclohexyl] ester,
[1S-[1.alpha.[R* (1R*,2S*,5R*)],2.beta.,5.alpha.]
pha.]]- (9CI) (CA INDEX NAME)



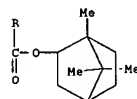
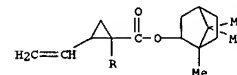
RN 84680-68-2 CAPLUS
CN 1,1-Cyclopropanedicarboxylic acid, 2-ethenyl-, bis[5-methyl-2-(1-methylethyl)cyclohexyl] ester,
[1S-[1.alpha.[R* (1R*,2S*,5R*)],2.beta.,5.alpha.]
pha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 97 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



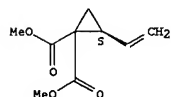
RN 84710-59-8 CAPLUS
CN 1,1-Cyclopropanedicarboxylic acid, 2-ethenyl-, bis[1,7,7-trimethylbicyclo[2.2.1]hept-2-yl] ester,
[1R-[1.alpha.,2.beta.[1(1R*,2S*,4R*),2S*],4.alpha.]]- (9CI) (CA INDEX NAME)



IT 53376-55-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 53376-55-9 CAPLUS
CN 1,1-Cyclopropanedicarboxylic acid, 2-ethenyl-, dimethyl ester, (S)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

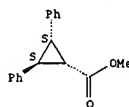
L7 ANSWER 97 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



L7 ANSWER 98 OF 139 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1983:71124 CAPLUS
DOCUMENT NUMBER: 98:71124
TITLE: Radical hydroformylation and hydrogenation of cyclopropenes with HCo(CO)_4 and HMn(CO)_5
AUTHOR(S): Nalesnik, Theodore E.; Freudenberger, John H.; Orchin, Milton
CORPORATE SOURCE: Dep. Chem., Univ. Cincinnati, Cincinnati, OH, 45221, USA
SOURCE: J. Organomet. Chem. (1982), 236(1), 95-100
CODEN: JORCAI; ISSN: 0022-328X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 98:71124
AB The reactions of HCo(CO)_4 or HMn(CO)_5 with substituted cyclopropenes are consistent with the formation of intermediate caged radical pairs; recombination in the cage of the radical pair leads to hydroformylation, and cage escape leads to hydrogenation. Steric factors are important in detg. rates and the product stereochem.
IT 5861-32-5P 7180-39-4P 7381-97-7P
77060-63-4P 84429-11-8P 84429-12-9P
84429-13-0P 84472-49-1P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
RN 5861-32-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2,3-diphenyl-, methyl ester, (1.alpha.,2.beta.,3.alpha.)- (9CI) (CA INDEX NAME)

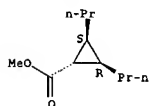
Relative stereochemistry.



RN 7180-39-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,3-dipropyl-, methyl ester, (1.alpha.,2.beta.,3.beta.)- (9CI) (CA INDEX NAME)

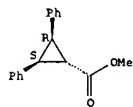
Relative stereochemistry.

L7 ANSWER 98 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



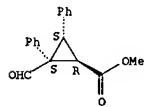
RN 7381-97-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2,3-diphenyl-, methyl ester, (1.alpha.,2.beta.,3.beta.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 77060-63-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-formyl-2,3-diphenyl-, methyl ester, (1.alpha.,2.alpha.,3.beta.)- (9CI) (CA INDEX NAME)

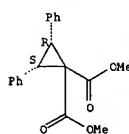
Relative stereochemistry.



RN 84429-11-8 CAPLUS
CN 1,1-Cyclopropanedicarboxylic acid, 2,3-diphenyl-, dimethyl ester, cis- (9CI) (CA INDEX NAME)

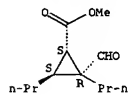
Relative stereochemistry.

L7 ANSWER 98 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



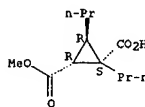
RN 84429-12-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-formyl-2,3-dipropyl-, methyl ester, (1.alpha.,2.alpha.,3.beta.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



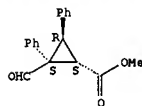
RN 84429-13-0 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1,3-dipropyl-, 2-methyl ester, (1.alpha.,2.alpha.,3.beta.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 84472-49-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-formyl-2,3-diphenyl-, methyl ester, (1.alpha.,2.beta.,3.beta.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

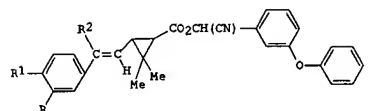


L7 ANSWER 98 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

L7 ANSWER 99 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1982:563291 CAPLUS
 DOCUMENT NUMBER: 97:163291
 TITLE: Substituted trans-3-(2-E-phenylalken-1-yl)-2,2-dimethylcyclopropanecarboxylic acid
 .alpha.-cyano-3-phenoxybenzyl ester,
 intermediates for their production and their use as
 ectoparasiticides
 INVENTOR(S): Fuchs, Rainer; Stendel, Wilhelm
 PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.
 SOURCE: Ger. Offen., 27 pp.
 CODEN: GWXXEX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3044799	A1	19820701	DE 1980-3044799	19801128

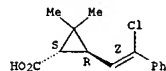
GI



AB Title cyclopropanecarboxylates (I; R = H, halo, CN, NO2, alkyl, alkoxy, alkylamino, haloalkyl, etc.; R1 = H, halo, Me, MeO; R2 = H, halo, alkyl, haloalkyl), useful as ectoparasiticides (no data), were prepd. by treating the appropriate cyclopropanecarbonyl chloride with 3-PhOC6H4CHO and an alkali metal cyanide in a solvent, optionally in the presence of a catalyst. Thus, 3.46 g 3-PhOC6H4CHO and 4.7 g (+-)-trans-(E)-3-(2-chloro-2-phenylvinyl)-2,2-dimethylcyclopropanecarbonyl chloride stirred 4 h at 20-25.degree. with 1.4 g NaCN and 0.2 g Bu4N+.Br- in 80 mL cyclohexane and 2 mL H2O gave 84%
 I (R = R1 = H, R2 = Cl).
 IT 82509-90-8P 82509-91-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and chlorination of)
 RN 82509-90-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2-chloro-2-phenylethenyl)-2,2-dimethyl-, [1.alpha.,3.beta.(E)]- (9CI) (CA INDEX NAME)

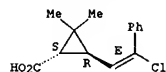
L7 ANSWER 99 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

Relative stereochemistry.
 Double bond geometry as shown.

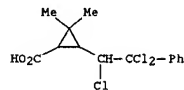


RN 82509-91-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2-chloro-2-phenylethenyl)-2,2-dimethyl-, [1.alpha.,3.beta.(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
 Double bond geometry as shown.

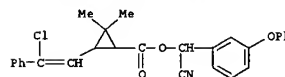


IT 82473-48-1P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 82473-48-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(1,2,2-trichloro-2-phenylethyl)- (9CI) (CA INDEX NAME)



IT 66477-00-7P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, as parasiticide)
 RN 66477-00-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2-chloro-2-phenylethenyl)-2,2-dimethyl-, cyano(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)

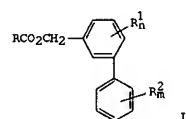
L7 ANSWER 99 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



L7 ANSWER 100 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1982:562601 CAPLUS
 DOCUMENT NUMBER: 97:162601
 TITLE: Insecticidal (1,1'-biphenyl)-3-ylmethyl esters, their use and compositions containing them
 INVENTOR(S): Plummer, Ernest L.
 PATENT ASSIGNEE(S): PMC Corp., USA
 SOURCE: Bur. Pat. Appl., 68 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 5
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 49977	A1	19820421	EP 1981-304543	19811001
EP 49977	B1	19860226		
US 4329518	R	19820511	US 1980-193056	19801002
US 4402973	A	19830906	US 1981-265940	19810521
EP 143152	A2	19850605	EP 1984-104933	19811001
EP 143152	A3	19850717		
EP 143153	R	19850605	EP 1984-104934	19811001
EP 143153	A2	19850717		
EP 143153	A3	19850717		
PRIORITY APPLN. INFO.:			US 1980-193056	19801002
			US 1981-265940	19810521
			US 1978-966405	19781204
			US 1979-76636	19790918
			EP 1981-304543	19811001

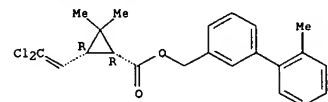
GI



AB 1,1'-Biphenyl-3-ylmethyl 2,2-dimethylcyclopropanecarboxylates I (R = substituted cyclopropyl; n, m = 0-4; R1 = halo, haloalkyl, C1-6 alkyl; R2 = halo, haloalkyl, C1-6 alkyl, C1-6 alkoxy) (.apprx.80 compds.) were prepd. by std. methods and were useful as insecticides (data given). Thus, converting 2,4-difluoro-3-methylaniline to an amide and treating with nitrosylhydrogen sulfate gave the corresponding nitrosoamide which decompd. in C6H6 to give 2,4-difluoro-3-methyl-1,1'-biphenyl. The last

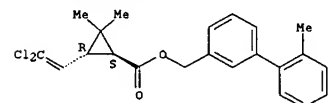
L7 ANSWER 100 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

Relative stereochemistry.



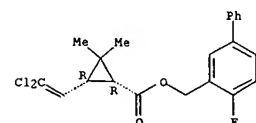
RN 76350-87-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2'-methyl[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 76350-91-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (4-fluoro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



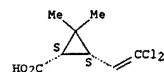
RN 76350-92-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (4-fluoro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L7 ANSWER 100 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

was photochem. brominated with NBS to give 3-bromomethyl-2,4-difluoro-1,1'-biphenyl (II). Esterifying Na cis-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate with II and 1,4-diazabicyclo[2.2.2]octane in aq. MeCN gave I (R = 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropyl, R1 = 2-F, R2 = 4-F).
 IT 59042-49-8P
 RL: PREP (Preparation)
 (formation of sodium salt and esterification with bromomethylidifluorobiphenyl)
 RN 59042-49-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



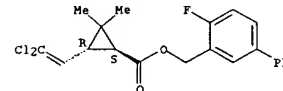
IT 76350-86-2P 76350-87-3P 76350-91-9P
 76350-92-0P 76350-93-1P 76350-94-2P
 76350-95-3P 76350-96-4P 76350-97-5P
 76350-98-6P 76350-99-7P 76351-00-3P
 76351-01-4P 76351-02-5P 76351-03-6P
 76351-04-7P 76351-05-8P 76351-06-9P
 76351-07-0P 76351-08-1P 76351-09-2P
 76351-10-5P 76351-11-6P 76351-12-7P
 76351-13-8P 76351-14-9P 76351-15-0P
 76351-16-1P 76351-17-2P 76351-18-3P
 76351-19-4P 76351-20-7P 76351-21-8P
 76364-76-8P 76364-79-9P 76081-38-2P
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 82617-57-0P 82617-58-1P 82617-59-2P
 82617-60-5P 82617-61-6P 82617-62-7P
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 82617-72-9P 82617-73-0P 82617-77-4P
 82617-78-5P 83169-68-0P 83169-69-1P
 83169-70-4P 83169-71-5P 83169-72-6P
 83169-73-7P 83169-74-8P 83169-75-9P
 83169-76-0P 83169-77-1P 83213-18-7P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except

adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. and insecticidal activity of)

RN 76350-86-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2'-methyl[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

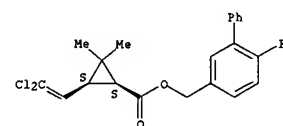
L7 ANSWER 100 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

Relative stereochemistry.



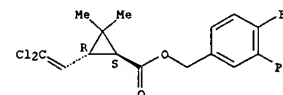
RN 76350-93-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (6-fluoro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



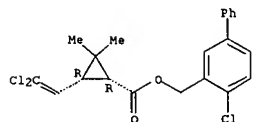
RN 76350-94-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (6-fluoro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



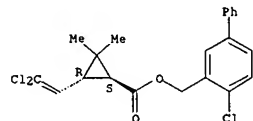
RN 76350-95-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (4-chloro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



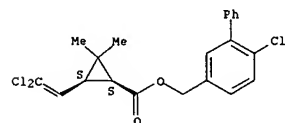
RN 76350-96-4 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (4-chloro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 76350-97-5 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (6-chloro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

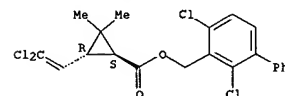


RN 76350-98-6 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (6-chloro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

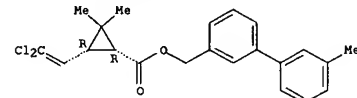
RN 76351-02-5 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2,4-dichloro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



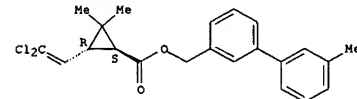
RN 76351-03-6 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3'-methyl[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

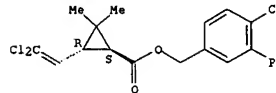


RN 76351-04-7 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3'-methyl[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

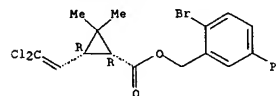


RN 76351-05-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2',3',4',5',6'-pentafluoro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)



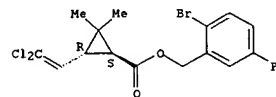
RN 76350-99-7 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (4-bromo[1,1'-biphenyl]-3-yl)methyl ester, cis- (5CI) (CA INDEX NAME)

Relative stereochemistry.



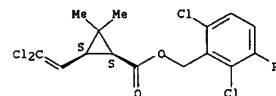
RN 76351-00-3 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (4-bromo[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

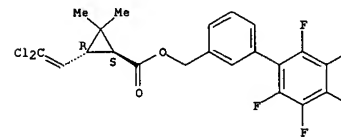


RN 76351-01-4 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2,4-dichloro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

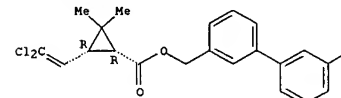


Relative stereochemistry.



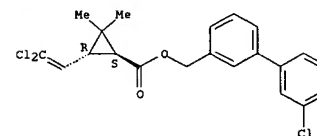
RN 76351-06-9 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3'-chloro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 76351-07-0 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3'-chloro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

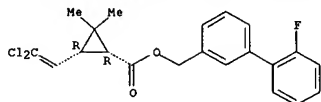
Relative stereochemistry.



RN 76351-08-1 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2'-fluoro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

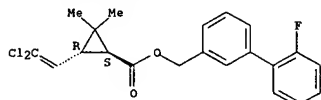
Relative stereochemistry.

L7 ANSWER 100 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



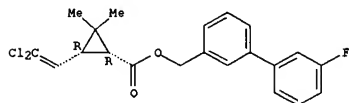
RN 76351-09-2 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2'-fluoro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 76351-10-5 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3'-fluoro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

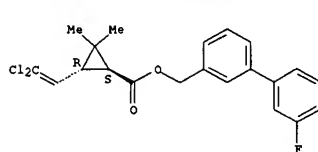
Relative stereochemistry.



RN 76351-11-6 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3'-fluoro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

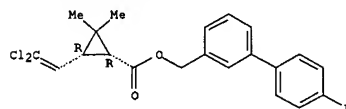
Relative stereochemistry.

L7 ANSWER 100 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



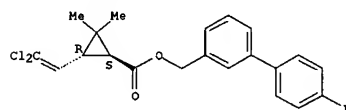
RN 76351-12-7 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (4'-fluoro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 76351-13-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (4'-fluoro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

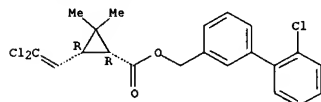
Relative stereochemistry.



RN 76351-14-9 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2'-chloro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

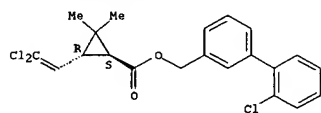
Relative stereochemistry.

L7 ANSWER 100 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



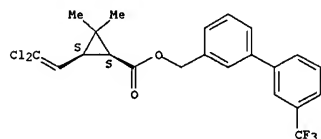
RN 76351-15-0 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2'-chloro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 76351-16-1 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, [3'-(trifluoromethyl)[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

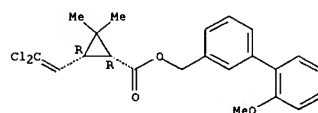
Relative stereochemistry.



RN 76351-17-2 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2'-methoxy[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

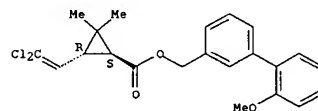
Relative stereochemistry.

L7 ANSWER 100 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



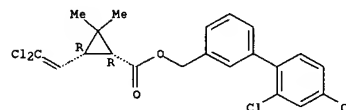
RN 76351-18-3 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2'-methoxy[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



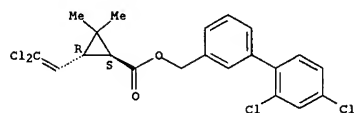
RN 76351-19-4 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2',4'-dichloro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



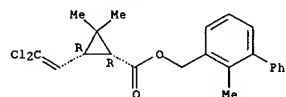
RN 76351-20-7 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2',4'-dichloro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



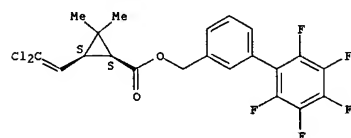
RN 76351-21-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 76364-78-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2',3',4',5',6'-pentafluoro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

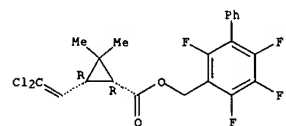


RN 76364-79-9 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, [3'-(trifluoromethyl)[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

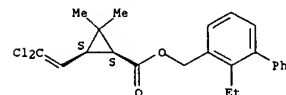
RN 82617-55-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2,4,5,6-tetrafluoro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



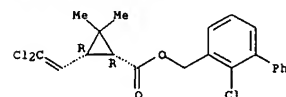
RN 82617-57-0 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2-ethyl[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

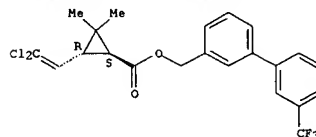


RN 82617-58-1 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2-chloro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

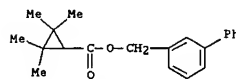
Relative stereochemistry.



RN 82617-59-2 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2-fluoro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

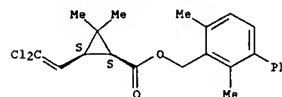


RN 79081-38-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl-, [1,1'-biphenyl]-3-ylmethyl ester (9CI) (CA INDEX NAME)



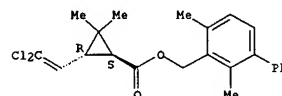
RN 82617-34-3 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2,4-dimethyl[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

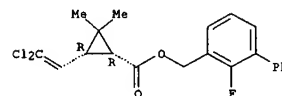


RN 82617-54-7 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2,4-dimethyl[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

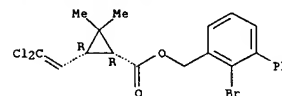


Relative stereochemistry.



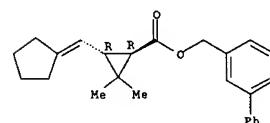
RN 82617-60-5 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2-bromo[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



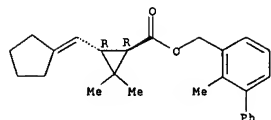
RN 82617-61-6 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(cyclopentylidenemethyl)-2,2-dimethyl-, [1,1'-biphenyl]-3-ylmethyl ester, (1R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



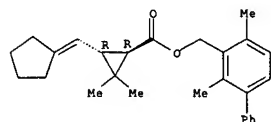
RN 82617-62-7 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(cyclopentylidenemethyl)-2,2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, (1R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



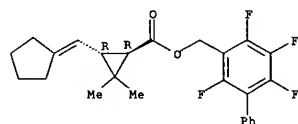
RN 82617-63-8 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(cyclopentylidenemethyl)-2,2-dimethyl-,
(2,4-dimethyl[1,1'-biphenyl]-3-yl)methyl ester, (1R-trans)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

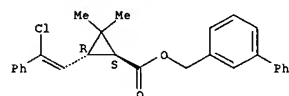


RN 82617-64-9 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(cyclopentylidenemethyl)-2,2-dimethyl-,
(2,4,5,6-tetrafluoro[1,1'-biphenyl]-3-yl)methyl ester, (1R-trans)-
(9CI) (CA INDEX NAME)

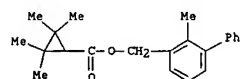
Absolute stereochemistry.



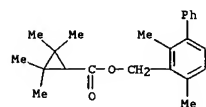
RN 82617-65-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
(2,4-dimethyl[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)



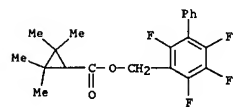
RN 82617-69-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl-,
(2-methyl[1,1'-biphenyl]-3-yl)methyl ester (9CI) (CA INDEX NAME)



RN 82617-70-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl-,
(2,4-dimethyl[1,1'-biphenyl]-3-yl)methyl ester (9CI) (CA INDEX NAME)

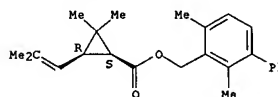


RN 82617-71-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl-,
(2,4,5,6-tetrafluoro[1,1'-biphenyl]-3-yl)methyl ester (9CI) (CA INDEX NAME)



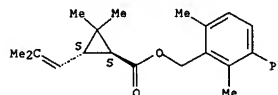
RN 82617-72-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dichloro-3,3-dimethyl-,
(2-methyl[1,1'-biphenyl]-3-yl)methyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



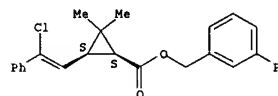
RN 82617-66-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
(2,4-dimethyl[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



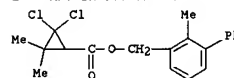
RN 82617-67-2 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-2-phenylethenyl)-2,2-dimethyl-,
[1,1'-biphenyl]-3-ylmethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.

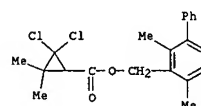


RN 82617-68-3 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-2-phenylethenyl)-2,2-dimethyl-,
[1,1'-biphenyl]-3-ylmethyl ester, trans- (9CI) (CA INDEX NAME)

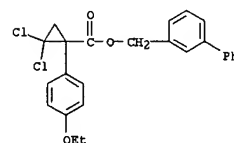
Relative stereochemistry.
Double bond geometry unknown.



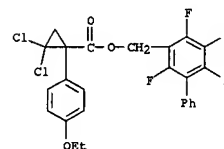
RN 82617-73-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dichloro-3,3-dimethyl-,
(2,4-dimethyl[1,1'-biphenyl]-3-yl)methyl ester (9CI) (CA INDEX NAME)



RN 82617-77-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dichloro-1-(4-ethoxyphenyl)-,
[1,1'-biphenyl]-3-ylmethyl ester (9CI) (CA INDEX NAME)

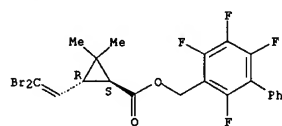


RN 82617-78-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dichloro-1-(4-ethoxyphenyl)-,
(2,4,5,6-tetrafluoro[1,1'-biphenyl]-3-yl)methyl ester (9CI) (CA INDEX NAME)



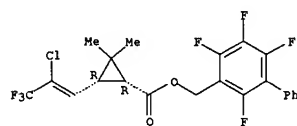
L7 ANSWER 100 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RN 83169-68-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-,
 (2,4,5,6-tetrafluoro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI)
 (CA INDEX NAME)

Relative stereochemistry.



RN 83169-69-1 CAPLUS
 CN Cyclopropanecarboxylic acid,
 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-
 dimethyl-, (2,4,5,6-tetrafluoro[1,1'-biphenyl]-3-yl)methyl ester,
 cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.
 Double bond geometry unknown.

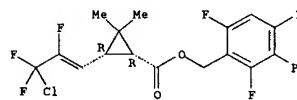


RN 83169-70-4 CAPLUS
 CN Cyclopropanecarboxylic acid,
 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-
 dimethyl-, (2,4,6-trifluoro[1,1'-biphenyl]-3-yl)methyl ester, cis-
 (9CI) (CA INDEX NAME)

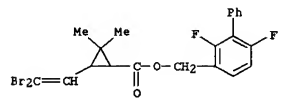
Relative stereochemistry.
 Double bond geometry unknown.



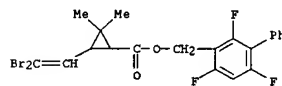
L7 ANSWER 100 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 83169-74-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-,
 (2,6-difluoro[1,1'-biphenyl]-3-yl)methyl ester, (2R-cis)- (9CI) (CA
 INDEX NAME)

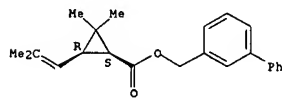


RN 83169-75-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-,
 (2,4,6-trifluoro[1,1'-biphenyl]-3-yl)methyl ester, (2R-cis)- (9CI)
 (CA INDEX NAME)

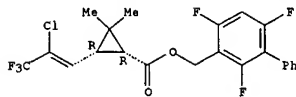


RN 83169-76-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 [1,1'-biphenyl]-3-ylmethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

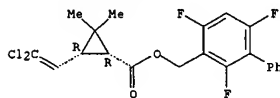


L7 ANSWER 100 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



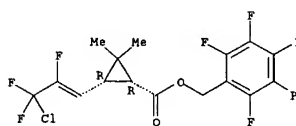
RN 83169-71-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
 (2,4,6-trifluoro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA
 INDEX NAME)

Relative stereochemistry.



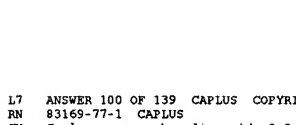
RN 83169-72-6 CAPLUS
 CN Cyclopropanecarboxylic acid,
 3-(3-chloro-2,3,3-trifluoro-1-propenyl)-2,2-
 dimethyl-, (2,4,5,6-tetrafluoro[1,1'-biphenyl]-3-yl)methyl ester, cis-
 (9CI) (CA INDEX NAME)

Relative stereochemistry.
 Double bond geometry unknown.



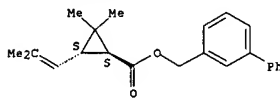
RN 83169-73-7 CAPLUS
 CN Cyclopropanecarboxylic acid,
 3-(3-chloro-2,3,3-trifluoro-1-propenyl)-2,2-
 dimethyl-, (2,4,6-trifluoro[1,1'-biphenyl]-3-yl)methyl ester, cis-
 (9CI) (CA INDEX NAME)

Relative stereochemistry.
 Double bond geometry unknown.



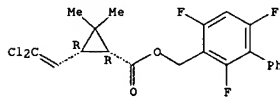
L7 ANSWER 100 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RN 83169-77-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 [1,1'-biphenyl]-3-ylmethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



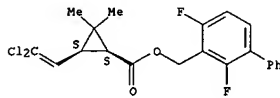
RN 83213-18-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
 (2,4,6-trifluoro[1,1'-biphenyl]-3-yl)methyl ester, (1R-cis)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.

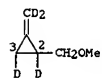


IT 76350-74-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prep. and insecticidal properties of)
 RN 76350-74-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
 (2,4-difluoro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX
 NAME)

Relative stereochemistry.

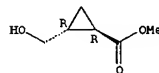


L7 ANSWER 101 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1982:543960 CAPLUS
 DOCUMENT NUMBER: 97:143960
 TITLE: Stereochemistry of the thermal isomerizations of
 (2S,3R)-2-methoxymethyl-2,3-dideuterio-1-
 (dideuteriomethylene)cyclopropane
 Baldwin, John E.; Chang, Glenn Eu Chung
 Dep. Chem., Univ. Oregon, Eugene, OR, 97403, USA
 Tetrahedron (1982), 38(6), 825-35
 CODEN: TETRA; ISSN: 0040-4020
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 97:143960
 GI



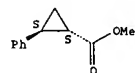
AB The (2S,3R)-isomer of I was heated at 198.8.degree.; from mol
 fractions of
 the 8 isomers of the resulting 2,3,.alpha.,.alpha.- and
 2,3,3,.alpha.-tetra-deuterio-2-methoxymethyl-1-methylenecyclopropanes
 rate
 consta. were derived for 7 distinct modes of isomerization.
 One-center
 thermal epimerizations at C-2 and C-3 and the C(2)-C(3) 2-center
 epimerization are of kinetic importance. Only 2 of 4 observable
 stereochem. modes for 1,3-C shifts are seen; there is inversion of
 stereochem. at the migrating C atom, and the C(3)-H trans to
 C(2)-CH2OMe
 in I becomes anti:syn 4:1 C(.alpha.)-H in the 1,3-shift product.
 IT 35501-83-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and methylation of)
 RN 35501-83-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(hydroxymethyl)-, methyl ester,
 (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



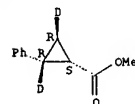
IT 52920-02-2P 58105-22-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and redn. of)
 RN 52920-02-2 CAPLUS

L7 ANSWER 101 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



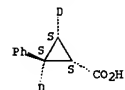
RN 82992-89-0 CAPLUS
 CN Cyclopropane-2,3-d2-carboxylic acid, 2-phenyl-, methyl ester,
 (1.alpha.,2.alpha.,3.beta.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



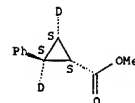
RN 82992-90-3 CAPLUS
 CN Cyclopropane-2,3-d2-carboxylic acid, 2-phenyl-, [1S-
 (1.alpha.,2.beta.,3.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 83024-82-2 CAPLUS
 CN Cyclopropane-2,3-d2-carboxylic acid, 2-phenyl-, methyl ester,
 [1S-(1.alpha.,2.beta.,3.alpha.)]- (9CI) (CA INDEX NAME)

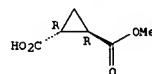
Absolute stereochemistry.



RN 83024-83-3 CAPLUS
 CN Cyclopropane-2,3-d2-carboxylic acid, 2-phenyl-, methyl ester,
 [1S-(1.alpha.,2.beta.,3.beta.)]- (9CI) (CA INDEX NAME)

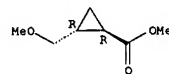
L7 ANSWER 101 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 CN 1,2-Cyclopropanedicarboxylic acid, monomethyl ester, (1R,2R)-rel-
 (9CI) (CA INDEX NAME)

Relative stereochemistry.



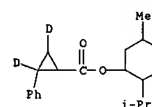
RN 58105-22-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(methoxymethyl)-, methyl ester, trans-
 (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 82992-88-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and sapon. of)
 RN 82992-88-9 CAPLUS

CN Cyclopropane-2,3-d2-carboxylic acid, 2-phenyl-, 5-methyl-2-(1-
 methylethyl)cyclohexyl ester (9CI) (CA INDEX NAME)



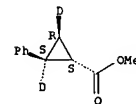
IT 16205-72-4P 82992-89-0P 82992-90-3P
 83024-82-2P 83024-83-3P 83024-84-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 16205-72-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, methyl ester, (1S,2S)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.

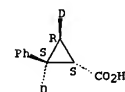
L7 ANSWER 101 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

Absolute stereochemistry.



RN 83024-84-4 CAPLUS
 CN Cyclopropane-2,3-d2-carboxylic acid, 2-phenyl-, [1S-
 (1.alpha.,2.beta.,3.beta.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 102 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1982:491961 CAPLUS
DOCUMENT NUMBER: 97:91961
TITLE: Insecticidal (1,1'-biphenyl)-3-ylmethyl esters
INVENTOR(S): Plummer, Ernest L.
PATENT ASSIGNEE(S): FMC Corp., USA
SOURCE: U.S., 18 pp. Cont.-in-part of U.S. Ser. No. 76,636,

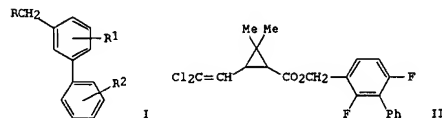
abandoned.
CODEN: USXXAM

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4329518	A	19820511	US 1980-193056	19801002
US 4214004	A	19800722	US 1978-966405	19781204
EP 63374	A1	19821027	EP 1982-103273	19791109
EP 63374	B1	19840222		
R: CH, DE, FR, GB, LU, NL				
IL 67046	A1	19830731	IL 1979-67046	19791119
US 4402973	A	19830906	US 1981-265940	19810521
ZA 8106442	A	19821229	ZA 1981-6442	19810916
IL 63955	A1	19870331	IL 1981-63955	19810928
DK 8104352	A	19820403	DK 1981-4352	19811001
EP 49977	A1	19820421	EP 1981-304543	19811001
EP 49977	B1	19860226		
R: BE, CH, DE, FR, GB, IT, LU, NL				
JP 57091952	A2	19820608	JP 1981-154893	19811001
BR 8106334	A	19820622	BR 1981-6334	19811001
ES 505939	A1	19830101	ES 1981-505939	19811001
HU 30450	O	19840328	HU 1981-2840	19811001
HU 190370	B	19860828		
HU 31049	O	19840428	HU 1982-3105	19811001
EP 143152	A2	19850605	EP 1984-104933	19811001
EP 143152	A3	19850717		
R: BE, CH, DE, FR, GB, IT, LI, LU, NL				
EP 143153	A2	19850605	EP 1984-104934	19811001
EP 143153	A3	19850717		
R: BE, CH, DE, FR, GB, IT, LI, LU, NL				
AU 8175990	A1	19820408	AU 1981-75990	19811002
AU 549629	B2	19860206		
DD 202098	A5	19830831	DD 1981-233846	19811002
CA 1171874	A2	19840731	CA 1982-407132	19820712
DK 8203442	A	19820802	DK 1982-3442	19820802
ES 515039	A1	19830601	ES 1982-515039	19820816
ES 515040	A1	19830601	ES 1982-515040	19820816
ES 515041	A1	19830601	ES 1982-515041	19820816
ES 515042	A1	19830601	ES 1982-515042	19820816
ES 515043	A1	19830601	ES 1982-515043	19820816
ES 515044	A1	19830601	ES 1982-515044	19820816
US 4536591	A	19850820	US 1983-464242	19830207
US 4668792	A	19870526	US 1983-563711	19831220
PRIORITY APPLN. INFO.:				
			US 1978-966405	19781204
			US 1979-76636	19790918

L7 ANSWER 102 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
EP 1980-900040 19791109
IL 1979-58744 19791119
US 1980-193056 19801002
US 1981-265940 19810521
CA 1981-386098 19810917
DK 1981-4352 19811001
EP 1981-304543 19811001
US 1982-376442 19820510

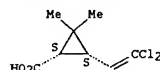
OTHER SOURCE(S): CASREACT 97:91961
GI



AB [1,1'-Biphenyl]-3-ylmethyl derivs. I (R = OH, MeSO₃, 4-MeC₆H₄SO₃, Cl, Br,
R1 = H, 1-4 halo, esp. F, alkyl, F3C; R2 = H, 1-5 halo, esp. F, alkyl, F3C, alkoxy) were prepd. by several methods. Thus, stirring 2,4,3-F2(Me)C₆H₂NH₂ with AcCl gave 2,4,3-F2(Me)C₆H₂NHAc which was converted to the nitrosoacetanilide and decompd. in C₆H₆ to give 2,4,3-F2(Me)C₆H₂Ph which was treated with NBS to give I (R = Br, R1 = 2,4,3-F2Me, R2 = H). I were converted to pyrethroids, e.g. II, whose insecticidal and acaricidal activity was shown.

IT 59042-49-8
RL: RCT (Reactant)
(esterification of, with bromomethyldifluorobiphenyl)
RN 59042-49-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



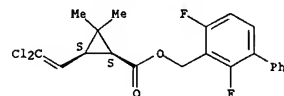
IT 76350-74-8P 76350-86-2P 76350-87-3P
76350-91-9P 76350-92-0P 76350-93-1P
76350-94-2P 76350-95-3P 76350-96-4P
76350-97-5P 76350-98-6P 76350-99-7P
76351-00-3P 76351-01-4P 76351-02-5P
76351-03-6P 76351-04-7P 76351-05-8P
76351-06-9P 76351-07-0P 76351-08-1P
76351-09-2P 76351-10-5P 76351-11-6P

L7 ANSWER 102 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

76351-12-7P 76351-13-8P 76351-14-9P
76351-15-0P 76351-16-1P 76351-17-2P
76351-18-3P 76351-19-4P 76351-20-7P
76351-21-8P 76351-22-9P 76351-23-0P
79081-38-2P 79081-40-6P 82617-34-3P
82617-54-7P 82617-55-8P 82617-56-9P
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82617-63-8P 82617-64-9P 82617-65-0P
82617-66-1P 82617-67-2P 82617-68-3P
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82617-78-5P

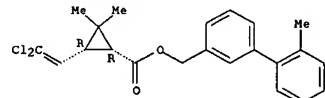
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and insecticidal activity of)
RN 76350-74-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2,4-difluoro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 76350-86-2 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2'-methyl[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

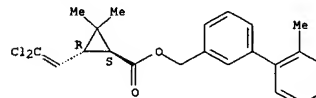
Relative stereochemistry.



RN 76350-87-3 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2'-methyl[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

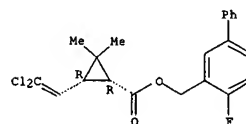
Relative stereochemistry.

L7 ANSWER 102 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



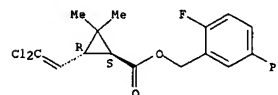
RN 76350-91-9 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (4-fluoro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



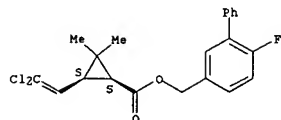
RN 76350-92-0 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (4-fluoro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



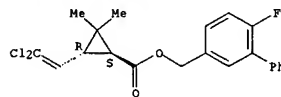
RN 76350-93-1 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (6-fluoro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



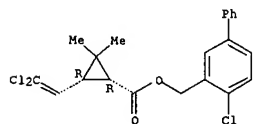
RN 76350-94-2 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (6-fluoro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



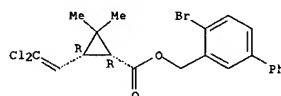
RN 76350-95-3 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (4-chloro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



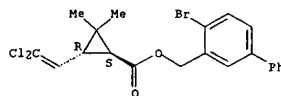
RN 76350-96-4 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (4-chloro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



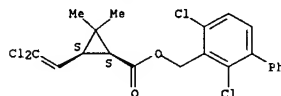
RN 76351-00-3 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (4-bromo[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



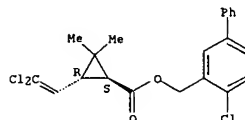
RN 76351-01-4 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2,4-dichloro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



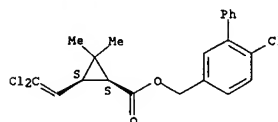
RN 76351-02-5 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2,4-dichloro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



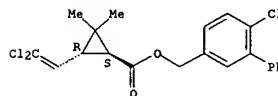
RN 76350-97-5 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (6-chloro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



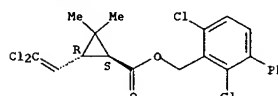
RN 76350-98-6 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (6-chloro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



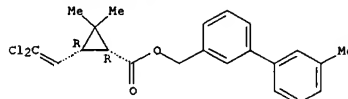
RN 76350-99-7 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (4-bromo[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



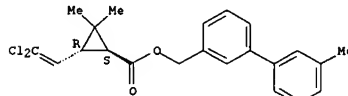
RN 76351-03-6 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3'-methyl[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



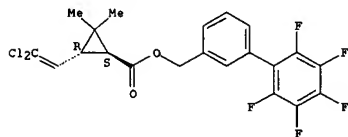
RN 76351-04-7 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3'-methyl[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



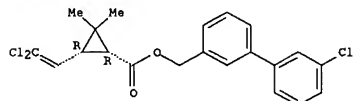
RN 76351-05-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2',3',4',5',6'-pentafluoro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



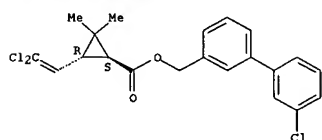
RN 76351-06-9 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3'-chloro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



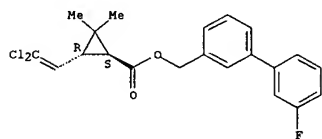
RN 76351-07-0 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3'-chloro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



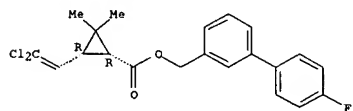
RN 76351-08-1 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (4'-fluoro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



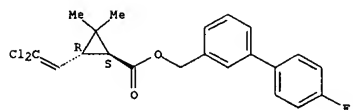
RN 76351-12-7 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (4'-fluoro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



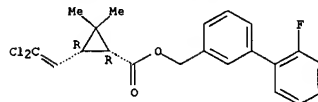
RN 76351-13-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (4'-fluoro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



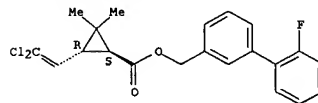
RN 76351-14-9 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2'-methoxy[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



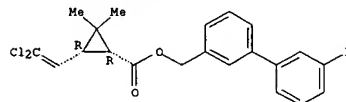
RN 76351-09-2 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2'-fluoro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



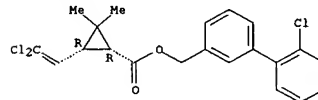
RN 76351-10-5 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3'-fluoro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



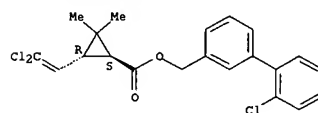
RN 76351-11-6 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3'-fluoro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



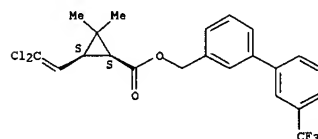
RN 76351-15-0 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2'-chloro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



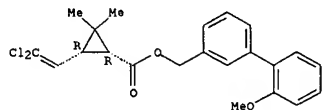
RN 76351-16-1 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, [3'-(trifluoromethyl)[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



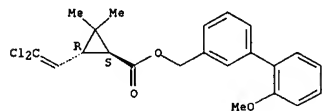
RN 76351-17-2 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2'-methoxy[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



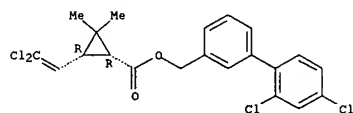
RN 76351-18-3 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2'-methoxy[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



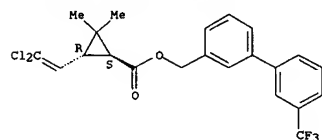
RN 76351-19-4 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2',4'-dichloro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

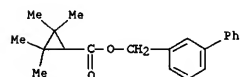


RN 76351-20-7 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2',4'-dichloro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

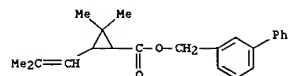
Relative stereochemistry.



RN 79081-38-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl-, [1,1'-biphenyl]-3-ylmethyl ester (9CI) (CA INDEX NAME)

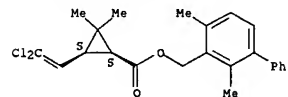


RN 79081-40-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, [1,1'-biphenyl]-3-ylmethyl ester (9CI) (CA INDEX NAME)

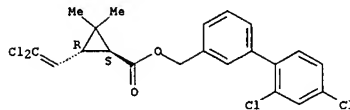


RN 82617-34-3 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2,4-dimethyl[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

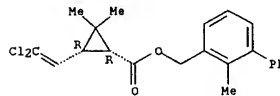


RN 82617-54-7 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2,4-dimethyl[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)



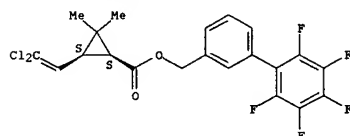
RN 76351-21-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



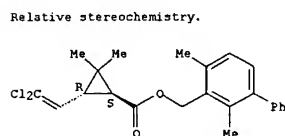
RN 76364-78-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2',3',4',5',6'-pentafluoro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



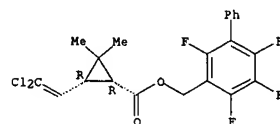
RN 76364-79-9 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3'-(trifluoromethyl)[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



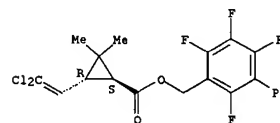
RN 82617-55-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2,4,5,6-tetrafluoro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 82617-56-9 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2,4,5,6-tetrafluoro[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

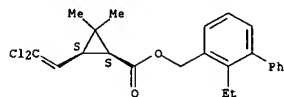
Relative stereochemistry.



RN 82617-57-0 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2-ethyl[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

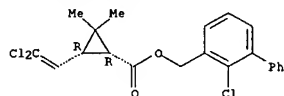
Relative stereochemistry.

L7 ANSWER 102 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



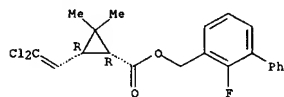
RN 82617-58-1 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2-chloro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



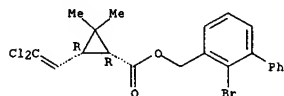
RN 82617-59-2 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2-fluoro[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 82617-60-5 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2-bromo[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

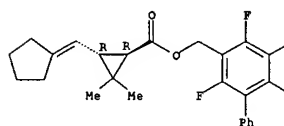
Relative stereochemistry.



L7 ANSWER 102 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

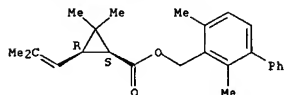
CN Cyclopropanecarboxylic acid, 3-(cyclopentylidenemethyl)-2,2-dimethyl-, (2,4,5,6-tetrafluoro[1,1'-biphenyl]-3-yl)methyl ester, (1R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



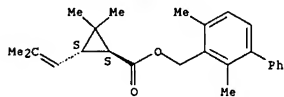
RN 82617-65-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (2,4-dimethyl[1,1'-biphenyl]-3-yl)methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 82617-66-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (2,4-dimethyl[1,1'-biphenyl]-3-yl)methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

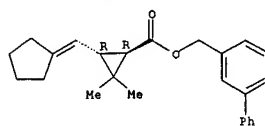


RN 82617-67-2 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2-chloro-2-phenylethenyl)-2,2-dimethyl-, (1,1'-biphenyl)-3-ylmethyl ester, cis- (9CI) (CA INDEX NAME)

L7 ANSWER 102 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

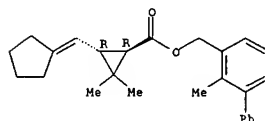
RN 82617-61-6 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(cyclopentylidenemethyl)-2,2-dimethyl-, (1,1'-biphenyl)-3-ylmethyl ester, (1R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



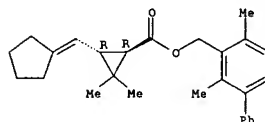
RN 82617-62-7 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(cyclopentylidenemethyl)-2,2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, (1R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 82617-63-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(cyclopentylidenemethyl)-2,2-dimethyl-, (2,4-dimethyl[1,1'-biphenyl]-3-yl)methyl ester, (1R-trans)- (9CI) (CA INDEX NAME)

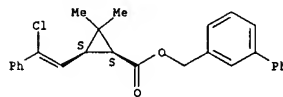
Absolute stereochemistry.



RN 82617-64-9 CAPLUS

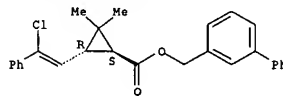
L7 ANSWER 102 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

Relative stereochemistry.
Double bond geometry unknown.

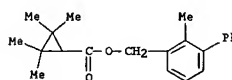


RN 82617-68-3 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2-chloro-2-phenylethenyl)-2,2-dimethyl-, (1,1'-biphenyl)-3-ylmethyl ester, trans- (9CI) (CA INDEX NAME)

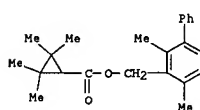
Relative stereochemistry.
Double bond geometry unknown.



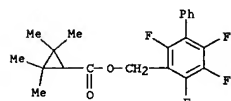
RN 82617-69-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester (9CI) (CA INDEX NAME)



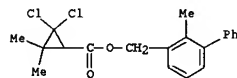
RN 82617-70-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl-, (2,4-dimethyl[1,1'-biphenyl]-3-yl)methyl ester (9CI) (CA INDEX NAME)



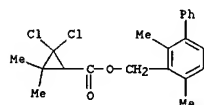
L7 ANSWER 102 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RN 82617-71-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl-, (2,4,5,6-tetrafluoro[1,1'-biphenyl]-3-yl)methyl ester (9CI) (CA INDEX NAME)



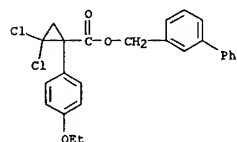
RN 82617-72-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dichloro-3,3-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester (9CI) (CA INDEX NAME)



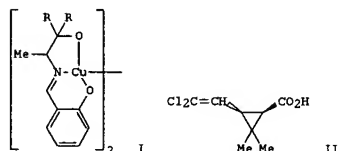
RN 82617-73-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dichloro-3,3-dimethyl-, (2,4-dimethyl[1,1'-biphenyl]-3-yl)methyl ester (9CI) (CA INDEX NAME)



RN 82617-77-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dichloro-1-(4-ethoxyphenyl)-, [1,1'-biphenyl]-3-ylmethyl ester (9CI) (CA INDEX NAME)

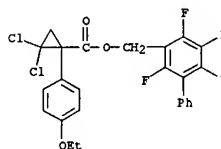


L7 ANSWER 103 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1982:424013 CAPLUS
 DOCUMENT NUMBER: 97:24013
 TITLE: Asymmetric synthesis of permethic acid.
 Stereochemistry of chiral copper carbenoid
 reaction
 AUTHOR(S): Aratani, Tadatoshi; Yoneyoshi, Yukio; Nagase, Tsuneyuki
 CORPORATE SOURCE: Cent. Res. Lab., Sumitomo Chem. Co., Ltd., Osaka, 569, Japan
 SOURCE: Tetrahedron Lett. (1982), 23(6), 685-8
 CODEN: TELEAY; ISSN: 0040-4039
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

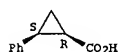


AB Olefins underwent stereoselective cyclopropanation by diazo compds. in the presence of R- or S-catalyst I (R = 2-octyloxy-5-tert-butylphenyl); this method was used for the enantioselective prep. of 1R-cis-permethic acid (II). Thus, EtO2CCHN2 was added to Cl3CCH2CH:OMe2 in the presence of S-I at 30.degree. over 4.75 h to give a cyclopropane ester, which underwent sapon. and dehydrochlorination by refluxing in KOH/aq. EtOH for 5 h to give 92% product, comprising 80.6% II.
 IT 23020-18-0P 48126-51-8P 55701-05-8P
 55701-09-2P 71697-60-4P 71697-61-5P
 71697-62-6P 82095-82-7P 82095-83-8P
 82095-84-9P 82095-85-0P 82095-86-1P
 82095-87-2P 82095-88-3P 82095-89-4P
 82095-90-7P 82095-91-8P 82095-92-9P
 82095-93-0P 82165-94-4P 82165-95-5P
 82165-96-6P 82165-97-7P 82166-04-9P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 23020-18-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, (1S,2R)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

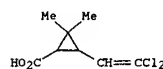
L7 ANSWER 102 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RN 82617-78-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dichloro-1-(4-ethoxyphenyl)-, (2,4,5,6-tetrafluoro[1,1'-biphenyl]-3-yl)methyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 103 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RN 48126-51-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2S)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

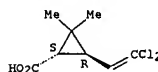


RN 55701-05-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (9CI) (CA INDEX NAME)



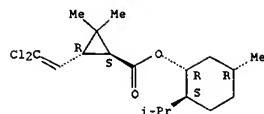
RN 55701-09-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (1S,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



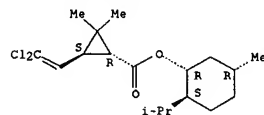
RN 71697-60-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, [1R-[1.alpha.(1S*,3R*),2.beta.,S.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



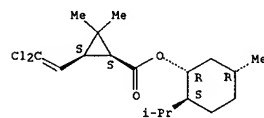
RN 71697-61-5 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethyl)-2,2-dimethyl-5-methyl-2-(1-methylethyl)cyclohexyl ester, [1R-[1.alpha.(1R*,3S*),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



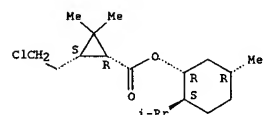
RN 71697-62-6 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethyl)-2,2-dimethyl-5-methyl-2-(1-methylethyl)cyclohexyl ester, [1R-[1.alpha.(1S*,3S*),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



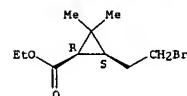
RN 82095-82-7 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethyl)-2,2-dimethyl-ethyl ester, (1R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



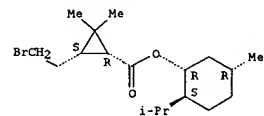
RN 82095-86-1 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2-bromoethyl)-2,2-dimethyl-ethyl ester, (1R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



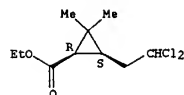
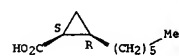
RN 82095-87-2 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2-bromoethyl)-2,2-dimethyl-5-methyl-2-(1-methylethyl)cyclohexyl ester, [1R-[1.alpha.(1R*,3S*),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

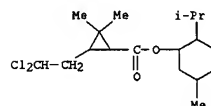


RN 82095-88-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-hexyl-, cis-(+)- (9CI) (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.

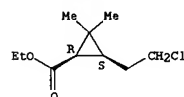


RN 82095-83-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethyl)-2,2-dimethyl-5-methyl-2-(1-methylethyl)cyclohexyl ester, [1R-[1.alpha.(1R*,3S*),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)



RN 82095-84-9 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2-chloroethyl)-2,2-dimethyl-ethyl ester, (1R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

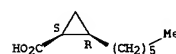


RN 82095-85-0 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2-chloroethyl)-2,2-dimethyl-5-methyl-2-(1-methylethyl)cyclohexyl ester, [1R-[1.alpha.(1R*,3S*),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

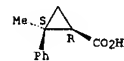
RN 82095-89-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-hexyl-, cis-(+)- (9CI) (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.



RN 82095-90-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-2-phenyl-, cis-(+)- (9CI) (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.



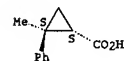
RN 82095-91-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-2-phenyl-, cis-(+)- (9CI) (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.



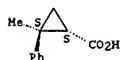
RN 82095-92-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-2-phenyl-, trans-(+)- (9CI) (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.



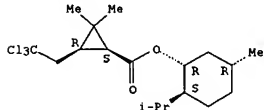
RN 82095-93-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-2-phenyl-, trans-(+)- (9CI) (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.



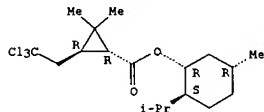
RN 82165-94-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2,2,2-trichloroethyl)-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, [1R-[1.alpha.(1S*,3R*),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



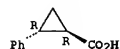
RN 82165-95-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2,2,2-trichloroethyl)-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, [1R-[1.alpha.(1R*,3R*),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



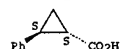
RN 82165-96-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2,2,2-trichloroethyl)-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, [1R-[1.alpha.(1S*,3S*),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



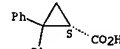
RN 23020-15-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1S,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



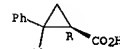
RN 53692-73-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-diphenyl-, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



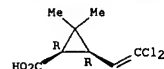
RN 53692-74-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-diphenyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

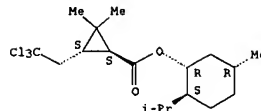


RN 55667-40-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (1R,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

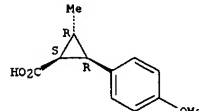


RN 55701-08-1 CAPLUS



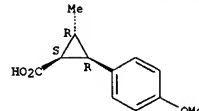
RN 82165-97-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(4-methoxyphenyl)-3-methyl-, (1.alpha.,2.alpha.,3.beta.)-(+)- (9CI) (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.



RN 82166-04-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(4-methoxyphenyl)-3-methyl-, (1.alpha.,2.alpha.,3.beta.)-(-)- (9CI) (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.

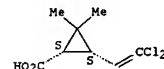


IT 3471-10-1P 23020-15-7P 53692-73-2P
53692-74-3P 55667-40-8P 55701-08-1P
57991-29-4P 82165-93-3P 82165-98-8P
82165-99-9P 82166-00-5P 82166-01-6P
82166-02-7P 82166-03-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, by stereoselective cyclopropanation reaction)
RN 3471-10-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2R)- (9CI) (CA INDEX NAME)

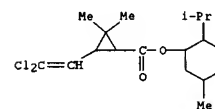
Absolute stereochemistry. Rotation (-).

L7 ANSWER 103 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (1S,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

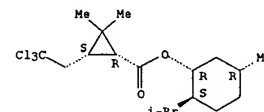


RN 57991-29-4 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, 5-methyl-2-(1-methylethyl)cyclohexyl ester (9CI) (CA INDEX NAME)



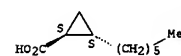
RN 82165-93-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2,2,2-trichloroethyl)-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, [1R-[1.alpha.(1R*,3S*),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 82165-98-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2-hexyl-, (1S-trans)- (9CI) (CA INDEX NAME)

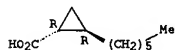
Absolute stereochemistry.



RN 82165-99-9 CAPLUS

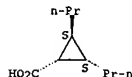
L7 ANSWER 103 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 CN Cyclopropanecarboxylic acid, 2-hexyl-, (1R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

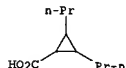


RN 82166-00-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,3-dipropyl-, [2S-(1.alpha.,2.alpha.,3.beta.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

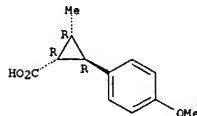


RN 82166-01-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,3-dipropyl-, [1S-(1.alpha.,2.alpha.,3.beta.)]- (9CI) (CA INDEX NAME)



RN 82166-02-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(4-methoxyphenyl)-3-methyl-, (1.alpha.,2.beta.,3.alpha.)-(+)- (9CI) (CA INDEX NAME)

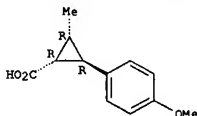
Rotation (+). Absolute stereochemistry unknown.



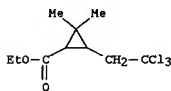
RN 82166-03-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(4-methoxyphenyl)-3-methyl-, (1.alpha.,2.beta.,3.alpha.)-(-) (9CI) (CA INDEX NAME)

L7 ANSWER 103 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

Rotation (-). Absolute stereochemistry unknown.

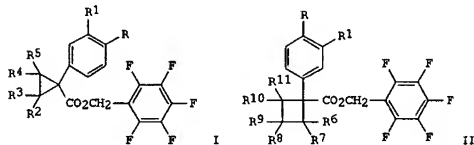


IT 60066-84-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn., sapon., and dehydrochlorination of)
 RN 60066-84-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2,2,2-trichloroethyl)-, ethyl ester (9CI) (CA INDEX NAME)



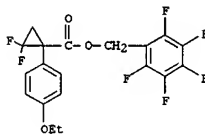
L7 ANSWER 104 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1982:199162 CAPLUS
 DOCUMENT NUMBER: 96:199162
 TITLE: Pesticidal pentafluorobenzyl esters of cycloalkyl carboxylic acids
 INVENTOR(S): Holan, George; O'Keefe, David Francis
 PATENT ASSIGNEE(S): Commonwealth Scientific and Industrial Research Organization, Australia
 SOURCE: Eur. Pat. Appl., 18 pp.
 DOCUMENT TYPE: CODEN: EPXXDW
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 44718	A2	19820127	EP 1981-303202	19810716
EP 44718	A3	19820331		
EP 44718	B1	19851113		
R1: CH, DE, FR, GB, IT, NL				
US 4390715	A	19830628	US 1981-282190	19810710
AU 543390	B2	19850418	AU 1981-72828	19810713
AU 8172828	A1	19820121		
ZA 8104795	A	19820728	ZA 1981-4795	19810714
JP 57042658	A2	19820310	JP 1981-112892	19810717
PRIORITY APPLN. INFO.:			AU 1980-4608	19800718

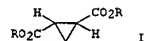


AB Esters I [R = halo, alkyl, alkoxy, alkylthio; R1 = H, Me; RR1 = OCH2O, OCF2O; R2 and R3 (same or different) are H, F, Cl, Br, Me; R4 and R5 (same or different) are H, F] and II (R and R1 same as above) [R6, R7, R8, R9, R10, and R11 (same or different) are H, F, Br, Cl, Me] were prepd. and they exhibited insecticidal activity. 1-(4-Ethoxyphenyl)-2,2,3,3-tetrafluorocyclobutanecarboxylic acid was treated with C6F5CH2Br and 18-crown-6 catalyst to give II (R = OEt, R6 = R7 = R8 = R9 = F, R1 = R10 = R11 = H).
 IT 81733-73-5
 RL: RCT (Reactant)

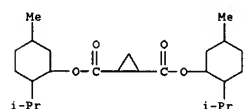
L7 ANSWER 104 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 (esterification of, by pentafluorobenzyl bromide, catalysts for)
 RN 81733-73-5 CAPLUS
 IT 81733-72-4P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. and insecticidal activity of)
 RN 81733-72-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-(4-ethoxyphenyl)-2,2-difluoro-, (pentafluorophenyl)methyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 105 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1981:461558 CAPLUS
 DOCUMENT NUMBER: 95:61558
 TITLE: Asymmetric cyclopropanation of fumarates with methylene bromide catalyzed by cobalt or nickel complexes
 AUTHOR(S): Matsuda, Hideki; Kanai, Hiroyoshi
 CORPORATE SOURCE: Fac. Eng., Kyoto Univ., Kyoto, 606, Japan
 SOURCE: Chem. Lett. (1981), (3), 395-6
 CODEN: CMLTAG; ISSN: 0366-7022
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB RR- And SS-trans-1,2-cyclopropanedicarboxylic acids (I; R = H) were prepd. by cyclopropanation of trans-RO2CCH=CHCO2R [R = (-)-menthyl, (-)- and (+)-bornyl] with CH2Br2 over CoCl2 or NiBr2 with subsequent sapon. of the chiral diesters I (same R).
 IT 78349-06-1P 78349-07-2P 78392-60-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and sapon. of)
 RN 78349-06-1 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, bis[5-methyl-2-(1-methylethyl)cyclohexyl] ester, [1R-[1.alpha.,2R*(1R*,2S*,5R*)],2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

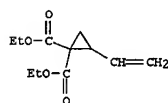


RN 78349-07-2 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, bis(1,7,7-trimethylbicyclo[2.2.1]hept-2-yl) ester, [1R-[1.alpha.,2.beta.,[1S*,2S*(1R*,2S*,5R*)],5.alpha.]]- (9CI) (CA INDEX NAME)

L7 ANSWER 106 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1981:442461 CAPLUS
 DOCUMENT NUMBER: 95:42461
 TITLE: Vinylcyclopropane derivatives
 INVENTOR(S): Fayter, Richard G., Jr.; White, John F.; Harris, Eugene G.
 PATENT ASSIGNEE(S): Emery Industries, Inc., USA
 SOURCE: U.S., 13 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

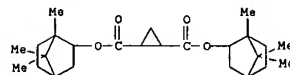
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4252739	A	19810224	US 1979-68135	19790820
EP 25846	A1	19810401	EP 1980-104651	19800806
EP 25846	B1	19840307		
R: BE, CH, DE, FR, GB, NL				
CA 1154789	A1	19831004	CA 1980-357951	19800811
JP 56045425	A2	19810425	JP 1980-112757	19800818
JP 01059253	B4	19891215		
BR 9005243	A	19810304	BR 1980-5243	19800819

PRIORITY APPLN. INFO.: US 1979-68135 19790820
 AB The reaction of RC(R1)R2CR3:CR4CR5R6R (R = halo, mesyl, tosyl, brosyl, PhSO3, 4-O2NCH4CO2, CF3SO3; R1, R2, R3, R4, R5, and R6 are H, alkyl) with activated methylene compds. was catalyzed by group VA or VIA element onium compds. and gave vinylcyclopropanes. Thus, trans-C1CH2CH:CHCH2Cl was treated with CH2(CO2Et)2, Me(CH2)15P+Bu3 Br-, and KOH to give di-Et 2-vinylcyclopropane-1,1-dicarboxylate.
 IT 7686-78-4P 33626-79-8P 65590-89-8P
 78162-06-8P 78162-08-0P 78162-15-9P
 78162-18-2P 78162-19-3P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 7686-78-4 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2-ethenyl-, diethyl ester (9CI) (CA INDEX NAME)

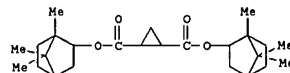


RN 33626-79-8 CAPLUS
 CN Cyclopropanedicarboxylic acid, 1-acetyl-2-ethenyl-, ethyl ester (9CI) (CA INDEX NAME)

L7 ANSWER 105 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 78392-60-6 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, bis(1,7,7-trimethylbicyclo[2.2.1]hept-2-yl) ester, [1S-[1.alpha.,2.beta.,[1S*,2S*(1R*,2S*,4R*)],4.alpha.]]- (9CI) (CA INDEX NAME)



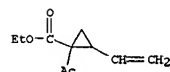
IT 14590-54-6P 34202-45-4P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 14590-54-6 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, (1S-trans)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



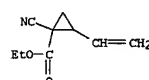
RN 34202-45-4 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, (1R-trans)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



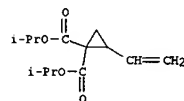
L7 ANSWER 106 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



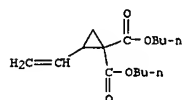
RN 65590-89-8 CAPLUS
 CN Cyclopropanedicarboxylic acid, 1-cyano-2-ethenyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 78162-06-8 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2-ethenyl-, bis(1-methylethyl) ester (9CI) (CA INDEX NAME)

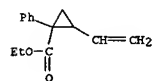


RN 78162-08-0 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2-ethenyl-, dibutyl ester (9CI) (CA INDEX NAME)

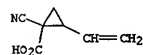


RN 78162-15-9 CAPLUS
 CN Cyclopropanedicarboxylic acid, 2-ethenyl-1-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

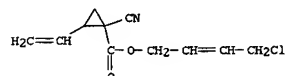
L7 ANSWER 106 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
INDEX NAME)



RN 78162-18-2 CAPLUS
CN Cyclopropanecarboxylic acid, 1-cyano-2-ethenyl- (9CI) (CA INDEX NAME)



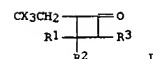
RN 78162-19-3 CAPLUS
CN Cyclopropanecarboxylic acid, 1-cyano-2-ethenyl-, 4-chloro-2-butenyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 108 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1981:191780 CAPLUS
DOCUMENT NUMBER: 94:191780
TITLE: 2-(2',2'-Trihaloethyl)-4-halocyclobutan-1-ones
INVENTOR(S): Bellus, Daniel; Greuter, Hans; Martin, Pierre;
Steiner, Eginhard
PATENT ASSIGNEE(S): Ciba-Geigy Corp., USA
SOURCE: U.S., 15 pp. Cont.-in-part of U.S. Ser. No. 891,412, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4242278	A	19801230	US 1978-948126	19781003
CH 644342	A	19840731	CH 1978-1974	19780223
GB 1601553	A	19811028	GB 1978-31151	19780330
CH 637100	A	19830715	CH 1978-9992	19780925
IL 60782	A1	19840229	IL 1980-60782	19800807
US 4322374	A	19820330	US 1980-181015	19800825
PRIORITY APPLN. INFO.:			CH 1977-4071	19770331
			CH 1977-14404	19771124
			CH 1978-1974	19780223
			US 1978-891412	19780329
			CH 1978-9992	19780925
			GB 1978-12557	19780330
			IL 1978-54395	19780330
			US 1978-948126	19781003

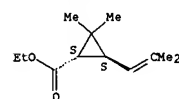
GI



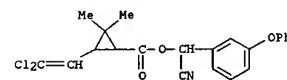
AB The title compds. I (X = Br, Cl; R1, R2 = H, Me, R1R2 = C2-4 alkylene; R3 = Br, Cl), useful as intermediates to insecticidal dihalovinylcyclopropanecarboxylic acids, were prep'd. by cyclocondensation of R1R2C:CH2 with CX3CH2CHX3COCl. Thus, heating CC13CH2CHClCOCl with isobutene in cyclohexane contg. Et3N at 65.degree. 7 h gave 60% I (R1 = R2 = Me; X = R3 = Cl) (II). Treating II and similar I with aq. NaOH gave dihalovinylcyclopropanecarboxylic acid derivs.
IT 52315-07-8P 52645-53-1P 59042-49-8P 59042-50-1P 61282-80-2P 63538-10-3P 63597-73-9P 63710-57-6P 64628-80-4P 68697-20-1P

L7 ANSWER 107 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1981:208401 CAPLUS
DOCUMENT NUMBER: 94:208401
TITLE: Dichlorobis(organonitrile)palladium(II) catalysis of cis to trans isomerization of ethyl chrysanthemate and chrysanthemic acid
AUTHOR(S): Williams, Jimmie L.; Rettig, Michael F.
CORPORATE SOURCE: Dep. Chem., Univ. California, Riverside, CA, 92521, USA
SOURCE: Tetrahedron Lett. (1981), 22(5), 385-8
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
AB R2PdCl2 (R = MeCN, EtCN, PhCN) in C6H6 or CHCl3 act as homogeneous catalysts in the room temp. cis-trans isomerization of Et chrysanthemate and chrysanthemic acid.
IT 15259-78-6
RL: RCT (Reactant) (cis-trans isomerization of, palladium complex-catalyzed)
RN 15259-78-6 CAPLUS
IT 827-90-7P 1802-02-4P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, by palladium complex-catalyzed isomerization of cis isomer)
RN 827-90-7 CAPLUS
RN 1802-02-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

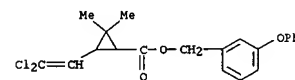
Relative stereochemistry.



L7 ANSWER 108 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
RN 52315-07-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)

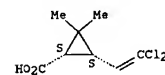


RN 52645-53-1 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



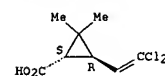
RN 59042-49-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

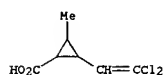


RN 59042-50-1 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (1R,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

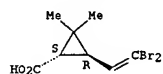


RN 61282-80-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(2,2-dichloroethenyl)-3-methyl- (9CI) (CA INDEX NAME)



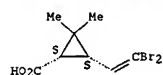
RN 63538-10-3 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, (1R,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



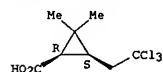
RN 63597-73-9 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

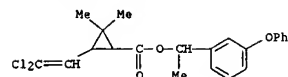


RN 63710-57-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2,2,2-trichloroethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

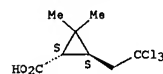


RN 64628-80-4 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, 1-(3-phenoxyphenyl)ethyl ester (9CI) (CA INDEX NAME)

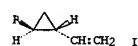


RN 68697-20-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2,2,2-trichloroethyl)-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L7 ANSWER 109 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1981:156367 CAPLUS
DOCUMENT NUMBER: 94:156367
TITLE: Stereoselective synthesis of optically active dictyopterenes A and B and their geometrical isomers
AUTHOR(S): Kajiwara, Tadahiko; Nakatomi, Toshihiro; Sasaki, Yasushi; Hatanaka, Akikazu
CORPORATE SOURCE: Dep. Agric. Chem., Univ. Yamaguchi, Yamaguchi, 753, Japan
SOURCE: Agric. Biol. Chem. (1980), 44(9), 2099-104
CODEN: ABCHA6; ISSN: 0002-1369
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB Optically active dictyopterenes A (I; R = E-CH:CHBu) and B (I; R = E,Z-CH:CHCH:CHEt) and their geometrical isomers were stereoselectively prepd. by condensing acrolein with EtO₂CCH₂SeMe₂.Br- or by Wittig reaction of (+)-I (R = CHO), derived from partially resolved (+)-I-(1S,2R)-I (R = CO₂H), with phosphonium salts in liq-solid 2-phase systems using crown ethers.

IT 77210-35-6P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. and detn. of the abs. configuration of)
RN 77210-35-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-ethenyl-, (1S,2R)- (9CI) (CA INDEX NAME)

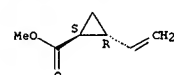
Absolute stereochemistry. Rotation (+).



IT 77183-93-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and oxidn. of)
RN 77183-93-8 CAPLUS
IT 77210-36-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

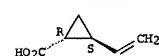
L7 ANSWER 109 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
(prepn. and redn. of)
RN 77210-36-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2-ethenyl-, methyl ester, (1S-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 77210-34-5P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. and resolu. of)
RN 77210-34-5 CAPLUS
IT 77183-94-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and sapon. of)
RN 77183-94-9 CAPLUS
IT 38206-81-4P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
RN 38206-81-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-ethenyl-, (1R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



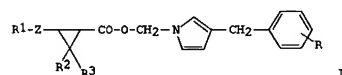
IT 77183-91-6P 77183-92-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn., redn., and Wittig reaction of)
RN 77183-91-6 CAPLUS
RN 77183-92-7 CAPLUS

L7 ANSWER 110 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1981:121308 CAPLUS
 DOCUMENT NUMBER: 94:121308
 TITLE: Benzylpyrrolylmethyl esters of cyclopropane
 carboxylic acids
 INVENTOR(S): Henrick, Clive A.
 PATENT ASSIGNEE(S): Zeecon Corp., USA
 SOURCE: U.S., 5 pp. Cont.-in-part of U.S. Ser. No.
 942,509.
 CODEN: USXXAM

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

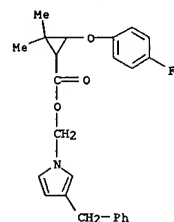
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4229352	A	19801021	US 1979-66263	19790813
US 4198527	A	19800415	US 1978-942509	19780915

PRIORITY APPLN. INFO.: US 1976-942509 19780915
 GI

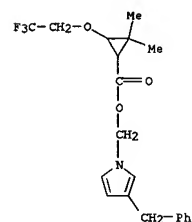


AB Pesticides (no data), benzylpyrrolylmethyl cyclopropanecarboxylates
 I (R = H, F, Br, Cl, CF₃, Me, MeO, MeS; R₁ = lower alkyl, lower haloalkyl, lower alkenyl, lower haloalkenyl, substituted phenyl; R₂ = lower alkyl, halo; R₃ = H, lower alkyl, halo; Z = O, S) were prepd. by the reaction of the acid chloride and alc. in an org. solvent over a basic catalyst or the reaction of the acid and the benzyl halide deriv. in an org. solvent in the presence of a base. Thus, 3-(4-chlorophenoxy)-2,2-dimethylcyclopropanecarboxylic acid was treated with SO₂Cl₂ and the acid chloride was treated with 3-benzylpyrrolylmethyl alc. in the presence of 4-(dimethylamino)pyridine in C₆H₆ at 25.degree. for 18 h to give I (R = H, R₁ = 4-ClC₆H₄, R₂ = R₃ = Me, Z = O).
 IT 71279-94-2
 RL: RCT (Reactant)
 (acylation by, of benzylpyrrolylmethyl alc.)
 RN 71279-94-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(pentyloxy)- (9CI) (CA INDEX NAME)

L7 ANSWER 110 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 [3-(phenylmethyl)-1H-pyrrol-1-yl]methyl ester (9CI) (CA INDEX NAME)

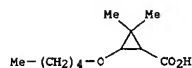


RN 76827-16-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2,2,2-trifluoroethoxy)-, [3-(phenylmethyl)-1H-pyrrol-1-yl]methyl ester (9CI) (CA INDEX NAME)

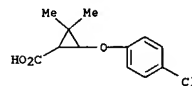


RN 76827-17-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(pentyloxy)-, [3-(phenylmethyl)-1H-pyrrol-1-yl]methyl ester (9CI) (CA INDEX NAME)

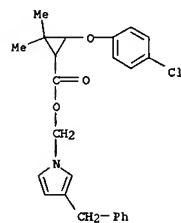
L7 ANSWER 110 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 NAME)



IT 5842-37-5
 RL: RCT (Reactant)
 (chlorination of)
 RN 5842-37-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(4-chlorophenoxy)-2,2-dimethyl- (9CI) (CA INDEX NAME)

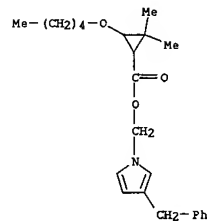


IT 76827-13-9P 76827-14-0P 76827-16-2P
 76827-17-3P 76827-18-4P 76827-19-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 76827-13-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(4-chlorophenoxy)-2,2-dimethyl-, [3-(phenylmethyl)-1H-pyrrol-1-yl]methyl ester (9CI) (CA INDEX NAME)

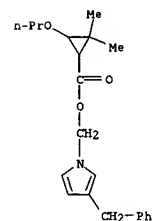


RN 76827-14-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(4-fluorophenoxy)-2,2-dimethyl-,

L7 ANSWER 110 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

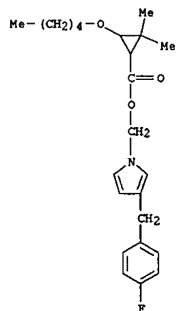


RN 76827-18-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-propoxy-, [3-(phenylmethyl)-1H-pyrrol-1-yl]methyl ester (9CI) (CA INDEX NAME)

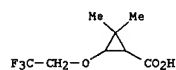


RN 76827-19-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(pentyloxy)-, [3-(4-fluorophenyl)methyl]-1H-pyrrol-1-yl]methyl ester (9CI) (CA INDEX NAME)

L7 ANSWER 110 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

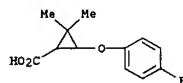


IT 74407-80-0
 RL: RCT (Reactant)
 (reaction of, with benzylpyrrololmethyl bromide)
 RN 74407-80-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2,2,2-trifluoroethoxy)- (9CI)
 (CA INDEX NAME)



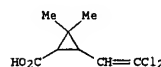
IT 76694-87-6
 RL: RCT (Reactant)
 (reaction of, with benzylpyrrololmethyl methanesulfonate)
 RN 76694-87-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(4-fluorophenoxy)-2,2-dimethyl- (9CI)
 (CA INDEX NAME)

L7 ANSWER 110 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



L7 ANSWER 111 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

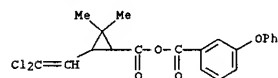
RL: RCT (Reactant)
 (reaction of, with phenoxybenzoyl chloride)
 RN 55701-05-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl- (9CI)
 (CA INDEX NAME)



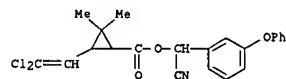
L7 ANSWER 111 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1981:121128 CAPLUS
 DOCUMENT NUMBER: 94:121128
 TITLE: Cyanohydrin esters by reacting a carboxylic acid anhydride with an alkali metal cyanide and an alkali
 INVENTOR(S): metal borohydride
 PATENT ASSIGNEE(S): Photis, James M.
 SOURCE: Stauffer Chemical Co., USA
 U.S., 5 pp.
 CODEX: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4234508	A	19801118	US 1979-80957	19791001

AB The title process, using an aq. Bu₄N⁺ Br⁻ phase transfer-catalyzed procedure, was used to prep., e.g., (R,S)-.alpha.-cyano-3-phenoxybenzyl (cis, trans)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate, a known insecticide, from the anhydride of 3-PhOC₆H₄CO₂H with dichlorochrysanthemic acid.
 IT 76925-90-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and reaction with borohydride and cyanide)
 RN 76925-90-1 CAPLUS
 CN Benzoic acid, 3-phenoxy-, anhydride with 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylic acid (9CI) (CA INDEX NAME)



IT 52315-07-8P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 52315-07-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



IT 55701-05-8

L7 ANSWER 112 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1980:567825 CAPLUS
 DOCUMENT NUMBER: 93:167825
 TITLE: A new rapid esterification procedure utilizing exceptionally mild reaction conditions
 AUTHOR(S): Rao, C. Gundu
 CORPORATE SOURCE: Dep. Chem., Purdue Univ., West Lafayette, IN, 47907, USA
 SOURCE: Org. Prep. Proc. Int. (1980), 12(3-4), 225-8
 CODEN: OPPIAK; ISSN: 0030-4948
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Stirring BzOH in MeCN with 1,5-diazabicyclo[5.4.0]undec-5-ene and MeI 1 h at room temp. gave 97% BzOMe. Me and Et esters of hexanoic, cyclopropanecarboxylic, cyclohexanecarboxylic, anisic, mesitoic, pivalic, 3-butenic, and 4-(dimethylamino)benzoic acids were similarly prepd. in 85-97% yields.
 IT 1759-53-1
 RL: RCT (Reactant)
 (esterification of, by Me iodide)
 RN 1759-53-1 CAPLUS
 CN Cyclopropanecarboxylic acid (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

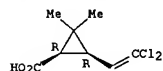


IT 2868-37-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, by esterification in the presence of diazabicycloundecene)
 RN 2868-37-3 CAPLUS
 CN Cyclopropanecarboxylic acid, methyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



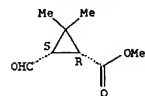
L7 ANSWER 113 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 of a Cu catalyst gave I (R = H, R1 = CC13), which was treated with Zn powder in HOAc-Et2O to give II (R2 = Cl). Analogous reaction of (R)-III gave (R)-IV which was cyclized in the presence of chiral binuclear Cu catalyst to eventually give (1R,3R)-II (R2 = Cl).
 IT 55667-40-8P 55701-02-5P 59213-08-0P 63597-73-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 55667-40-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (1R,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

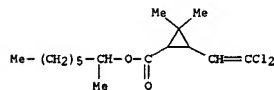


RN 55701-02-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-formyl-2,2-dimethyl-, methyl ester, (1R,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 59213-08-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, 1-methylheptyl ester (9CI) (CA INDEX NAME)



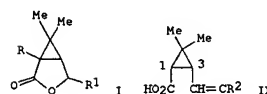
RN 63597-73-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L7 ANSWER 113 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1980:215260 CAPLUS
 DOCUMENT NUMBER: 92:215260
 TITLE: Insecticide intermediates
 INVENTOR(S): Hatch, Charles Eldridge; Kondo, Kiyoshi; Takashima, Toshiyuki; Tanemoto, Daiji
 PATENT ASSIGNEE(S): FMC Corp., USA
 SOURCE: Eur. Pat. Appl., 45 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

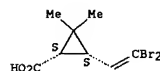
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 3666	A1	19790822	EP 1979-300173	19790202
EP 3666	B1	19830406		
R: EE, CH, DE, FR, GB, LU, NL				
US 4526987	A	19850702	US 1979-736	19790103
CA 1258864	A1	19890829	CA 1979-320114	19790123
IL 56507	A1	19840131	IL 1979-56507	19790126
IL 66043	A1	19840131	IL 1979-66043	19790126
IL 66044	A1	19840131	IL 1979-66044	19790126
DK 7900474	A	19790807	DK 1979-474	19790205
HU 25874	O	19830829	HU 1979-FE1037	19790205
HU 182955	B	19840328		
JP 59030710	B4	19840728	JP 1979-11925	19790206
JP 54115315	A2	19790907		
JP 59172437	A2	19840929	JP 1983-132988	19830722
JP 62003137	B4	19870123		
PRIORITY APPLN. INFO.:			US 1978-875648	19780206
			US 1978-875649	19780206
			US 1979-736	19790103
			IL 1979-56507	19790126

GI

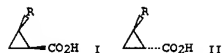


AB Lactones I (R = H, alkoxycarbonyl; R1 = H, CBr3, CC13; R = R1 .noteq. H), intermediates in the prepn. of insecticidal (no data) cyclopropanecarboxylates II (R2 = Br, Cl), were prepd. Thus, treatment of Me2C:CHCH(OH)CC13 (III) with diketene gave MeCOCH2CO2CH(CC13)CH:CHMe2, which reacted with tosyl azide in MeCN and then with NaOH to give N2CHCO2CH(CC13)CH:CHMe2 (IV). Carbenoid cyclization of IV in the presence

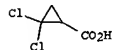
L7 ANSWER 113 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



L7 ANSWER 114 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1980:5888 CAPLUS
 DOCUMENT NUMBER: 92:5888
 TITLE: Substituent effect in the ionization of
 cis-2-substituted 1-cyclopropanecarboxylic acids
 AUTHOR(S): Kusuyama, Yoshiaki
 CORPORATE SOURCE: Fac. Educ., Wakayama Univ., Wakayama, 640, Japan
 SOURCE: Bull. Chem. Soc. Jpn. (1979), 52(7), 1944-9
 CODEN: BCSJAH; ISSN: 0009-2673
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB I (R = H, Me, Ph, MeO, EtO, Cl, Br, Ac, OAc, EtO2C) were prepd., and their pKa were detd. in water at 25.degree.C, along with those of II. The pKa values for I are larger than those for II except for the chloro and bromo derivs. The substituent effects obtained were in the usual order in the sense of the electronic effects, except for Ph, which produced a decrease in acidity relative to the unsubstituted acid. 13C NMR chem. shifts for the methylene C atom of the Et group in the Et ester of I in CDCl3 gave an LFER with the I pKa.
 IT 5365-14-0 5365-17-3
 RL: RCT (Reactant)
 (esterification of, with methanol and sulfuric acid)
 RN 5365-14-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dichloro- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



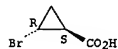
RN 5365-17-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dibromo- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L7 ANSWER 114 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 60212-40-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-bromo-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 60212-41-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-ethoxy-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 60212-42-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-methoxy-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



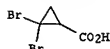
RN 60212-43-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-acetyl-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 65475-70-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-chloro-, trans- (9CI) (CA INDEX NAME)

L7 ANSWER 114 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



IT 939-90-2 6202-94-4 31420-66-3
 52920-02-2 60212-40-0 60212-41-1
 60212-42-2 60212-43-3 65475-70-9
 RL: PRP (Properties)
 (pKa of, pKa of cis isomer vs.)

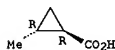
RN 939-90-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 6202-94-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-methyl-, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 31420-66-3 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, monoethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

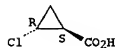


RN 52920-02-2 CAPLUS
 CN 1,2-Cyclopropanedicarboxylic acid, monomethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

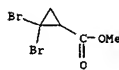
Relative stereochemistry.

L7 ANSWER 114 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

Relative stereochemistry.



IT 71666-01-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and dehydrobromination of, by tributyltin hydride in presence of azobisisobutyronitrile)
 RN 71666-01-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dibromo-, methyl ester (9CI) (CA INDEX NAME)



IT 939-89-9P 1759-53-1P 6142-57-0P
 18180-59-1P 31191-77-2P 31420-47-0P
 71666-03-0P 71666-04-1P 71666-05-2P
 71666-06-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and pKa of, substituent effect in relation to)
 RN 939-89-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 1759-53-1 CAPLUS
 CN Cyclopropanecarboxylic acid (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



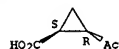
RN 6142-57-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-methyl-, cis- (8CI, 9CI) (CA INDEX NAME)

Relative stereochemistry.



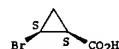
RN 18180-59-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-acetyl-, cis- (8CI, 9CI) (CA INDEX NAME)

Relative stereochemistry.



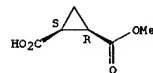
RN 31191-77-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-bromo-, cis- (8CI, 9CI) (CA INDEX NAME)

Relative stereochemistry.



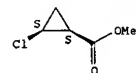
RN 31420-47-0 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, monomethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



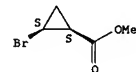
RN 71666-03-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



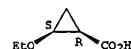
RN 71666-02-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-bromo-, methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



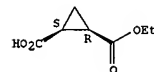
RN 71666-04-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2-ethoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



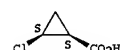
RN 71666-05-2 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, monoethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 71666-06-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-chloro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 65475-65-2P 71666-02-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(Prepn. and sapon. of)
RN 65475-65-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-chloro-, methyl ester, cis- (9CI) (CA INDEX NAME)

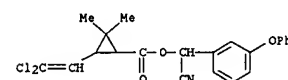
Relative stereochemistry.

L7 ANSWER 115 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1979:610918 CAPLUS
DOCUMENT NUMBER: 91:210918
TITLE: Halogenated butyric acid chloride
INVENTOR(S): Martin, Pierre; Steiner, Eginhard
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Eur. Pat. Appl., 24 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 2206	A1	19790613	EP 1978-101377	19781116
R1	BE, CH, DE, FR, GB, NL			
BR 7807708	A	19790731	BR 1978-7708	19781123
ES 475346	A1	19791016	ES 1978-475346	19781123
ZA 7806606	A	19791031	ZA 1978-6606	19781123
DD 140248	C	19800220	DD 1978-209276	19781123
AT 7808366	A	19800615	AT 1978-8366	19781123
AT 360500	B	19810112		
SU 812165	A3	19810307	SU 1978-2690456	19781123
JP 54081215	A2	19790628	JP 1978-144355	19781124
PRIORITY APPLN. INFO.:			CH 1977-14405	19771124
			CH 1978-11075	19781026
			CH 1977-14406	19771124

AB RR1CC1CH2CC12COC1 (R = F, R1 = H or F; R = Cl, R1 = H or Cl) were prepd. by the addn. reaction of CC13COR2 (R2 = Cl, OH or alkoxy) with RR1C:CH2 in the presence of one or more of CuCl, CuCl2, CuBr, CuBr2 or Cu powder as catalyst, followed by treatment with a chlorinating agent when R2 = OH or alkoxy. Thus, CC12:CH2 was added to CC13CO2Me in MeCN in the presence of CuCl to give Cl3CCH2CC12CO2Me, which gave Cl3CCH2CC12COC1 upon heating 40 h with concd. HCl.

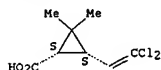
IT 52315-07-8P 59042-49-8P 59042-50-1P
60310-82-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 52315-07-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 59042-49-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,

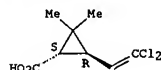
L7 ANSWER 115 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
(1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

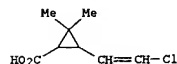


RN 59042-50-1 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
(1R,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 60310-82-9 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2-chloroethenyl)-2,2-dimethyl- (9CI)
(CA INDEX NAME)



L7 ANSWER 116 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1979:540408 CAPLUS
DOCUMENT NUMBER: 91:140408
TITLE: Cyclization of .gamma.-chlorocarbonylic acid esters
INVENTOR(S): Schwarze, Werner; Kleemann, Axel
PATENT ASSIGNEE(S): Deutsche Gold- und Silber-Scheideanstalt vorm. Roessler, Fed. Rep. Ger.
SOURCE: Ger. Offen., 10 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2751133	A1	19790517	DE 1977-2751133	19771116
NL 7808602	A	19790518	NL 1978-8602	19780818
GB 2008110	A	19790531	GB 1978-43736	19781108
FR 2409255	A1	19790615	FR 1978-31974	19781110
BE 872029	A1	19790514	BE 1978-46669	19781114
JP 54079254	A2	19790625	JP 1978-139480	19781114

PRIORITY APPLM. INFO.: DE 1977-2751133 19771116

AB Cyclopropanecarboxylate esters were prep'd. by cyclization of .gamma.-chloro aliph. esters in the presence of Na or K alcoholates. Thus, ClCH2CH2CHMeCO2Et added slowly to MeONa in PhMe with removal of a

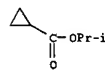
MeOH-PhMe azeotrope, then heated at 110.degree., gave 91.2% Et 1-methylcyclopropanecarboxylate.

IT 1759-53-1P 6887-83-8P 16783-11-2P
20121-71-5P 71441-76-4P 71441-77-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 1759-53-1 CAPLUS
CN Cyclopropanecarboxylic acid (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

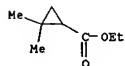


RN 6887-83-8 CAPLUS
CN Cyclopropanecarboxylic acid, 1-methylethyl ester (9CI) (CA INDEX NAME)



RN 16783-11-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-, ethyl ester (6CI, 7CI, 8CI,

L7 ANSWER 116 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
9CI) (CA INDEX NAME)



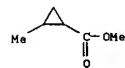
RN 20121-71-5 CAPLUS
CN Cyclopropanecarboxylic acid, 1-ethyl-, ethyl ester (8CI, 9CI) (CA INDEX NAME)



RN 71441-76-4 CAPLUS
CN Cyclopropanecarboxylic acid, 1-methyl-, ethyl ester (6CI, 9CI) (CA INDEX NAME)



RN 71441-77-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-, methyl ester (6CI, 7CI, 9CI) (CA INDEX NAME)

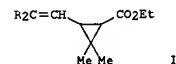


L7 ANSWER 117 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1979:38578 CAPLUS
DOCUMENT NUMBER: 90:38578
TITLE: Cyclopropanecarboxylic acid esters
INVENTOR(S): Milner, David John; Holland, David
PATENT ASSIGNEE(S): Imperial Chemical Industries Ltd., UK
SOURCE: Ger. Offen., 16 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2810098	A1	19780928	DE 1978-2810098	19780308
GB 1553638	A	19791003	GB 1977-10401	19770311
ZA 7801136	A	19790228	ZA 1978-1136	19780227
AU 7833779	A1	19790906	AU 1978-33779	19780302
AU 519324	B2	19811126		
NL 7802644	A	19780913	NL 1978-2644	19780310
FR 2383159	A1	19781006	FR 1978-6971	19780310
JP 53116350	A2	19781011	JP 1978-27564	19780310
CH 634036	A	19830114	CH 1978-2667	19780310
US 4332962	A	19820601	US 1981-238950	19810227

PRIORITY APPLM. INFO.: GB 1977-10401 19770311
US 1978-883310 19780303
US 1979-49322 19790618

GI



AB Cyclopropanecarboxylates I (R = Cl, Br) with increased cis-trans ratio were prep'd. by cyclizing R2C:CHCH:CHMe2 with N2CHCO2Et in an inert solvent (e.g. ClCH2CH2Cl) in the presence of a Rh (II) salt [e.g. Rh (II) pivalate, benzoate, chloroacetate, .alpha.-D-methylcamphorate] as catalyst at 20- 80.degree. and 30-300 min. Cis-I (R = Cl) has double the insecticidal activity of the trans isomer.

IT 55701-06-9 55701-07-0
RL: PROC (Process)
(conversion of, to acid chloride)

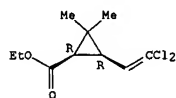
RN 55701-06-9 CAPLUS
RN 55701-07-0 CAPLUS

IT 63142-56-3P 63142-57-4P 68803-85-0P
68803-86-1P 68852-56-2P 68852-57-3P
68852-58-4P 68852-59-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 63142-56-3 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, ethyl

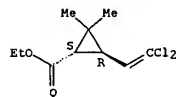
L7 ANSWER 117 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



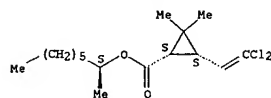
RN 63142-57-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, ethyl ester, (1R,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 68803-85-0 CAPLUS
 RN 68803-86-1 CAPLUS
 RN 68852-56-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, 1-methylheptyl ester, [1S-[1.alpha.(R*),3.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



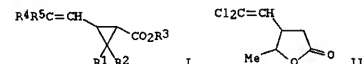
RN 68852-57-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, 1-methylheptyl ester, [1R-[1.alpha.(S*),3.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 118 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1979:22404 CAPLUS
 DOCUMENT NUMBER: 90122404
 TITLE: Dihalovinylcyclopropanecarboxylic acids and their esters
 INVENTOR(S): Lantzs, Reinhard
 PATENT ASSIGNEE(S): Bayer A.-G., Ger.
 SOURCE: Ger. Offen., 19 pp.
 CODEN: GWXKX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

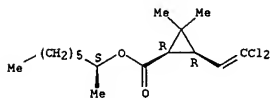
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2710174	A1	19780914	DE 1977-2710174	19770309
US 4217300	A	19800812	US 1978-879424	19780221
GB 1566692	A	19800508	GB 1978-8783	19780306
IL 54200	A1	19830731	IL 1978-54200	19780306
JP 53112853	A2	19781002	JP 1978-25076	19780307
AT 7801618	A	19790615	AT 1978-1618	19780307
AT 354415	B	19790110		
CH 634033	A	19830114	CH 1978-2469	19780307
DK 7801022	A	19780910	DK 1978-1022	19780308
NL 7802537	A	19780912	NL 1978-2537	19780308
FR 2383158	A1	19781006	FR 1978-6662	19780308
FR 2383158	B1	19830819		
BR 7801411	A	19781031	BR 1978-1411	19780308
BE 864696	A1	19780911	BE 1978-185769	19780309
US 4265819	A	19810505	US 1979-75363	19790913
PRIORITY APPLN. INFO.:			DE 1977-2710174	19770309
			US 1978-879424	19780221

GI



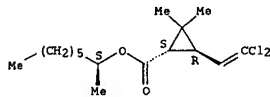
AB Four dihalovinylcyclopropanes I [R1, R2 = H, Cl-4 alkyl, CR1R2 = Cl.toreq.7 cycloaliph. moiety; R3 = H, Cl-4 alkyl, (un)substituted aryl- or heteroaryl methyl; R4 = R5 = F, Cl, Br], useful as insecticides (no data) or their intermediates, were prepd. Thus valerolactone II in PhMe was heated with SOCl2 12 h at 75-80.degree. and the mixt. stirred 8 h with HCl-satd. EtOH at room temp. to give ClCMe2CH(CH:CCl2)CH2CO2Et which was dehydrohalogenated with 50% KOH in the presence of Bu4N+Cl- in PhMe to

L7 ANSWER 117 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



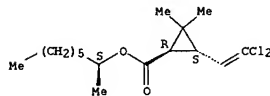
RN 68852-58-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, 1-methylheptyl ester, [1S-[1.alpha.(R*),3.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

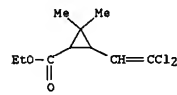


RN 68852-59-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, 1-methylheptyl ester, [1R-[1.alpha.(S*),3.beta.]]- (9CI) (CA INDEX NAME)

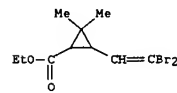
Absolute stereochemistry.



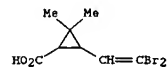
L7 ANSWER 118 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 give 914 I (R1 = R2 = Me, R3 = Et, R4 = R5 = Cl).
 IT 59609-49-3P 59898-05-4P 59952-39-5P
 61949-76-6P 61949-77-7P
 RL: SPN (Synthetic preparation); PREF (Preparation) (prepn. of)
 RN 59609-49-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 59898-05-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



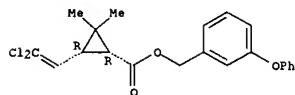
RN 59952-39-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, (9CI) (CA INDEX NAME)



RN 61949-76-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxypheyl)methyl ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

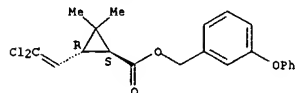
Relative stereochemistry.

L7 ANSWER 118 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 61949-77-7 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester, (1R,3S)-rel- (9CI) (CA INDEX NAME)

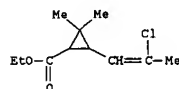
Relative stereochemistry.



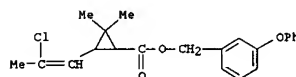
L7 ANSWER 119 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1979:22342 CAPLUS
DOCUMENT NUMBER: 90:22342
TITLE: Ethyl
2,2-dimethyl-3,5,5-trichlorohexane-1-carboxylate
INVENTOR(S): Ide, Junya; Nakata, Yasuo; Endo, Rokuro
PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKKXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53103415	A2	19780908	JP 1977-18349	19770222

AB Autoclaving 3.12 g Et 3,3-dimethyl-4-pentenecarboxylate, C13CMe, and tris(triphenylphosphine)dichlororuthenium 20 h at 110-115.degree. gave 40% title compd.
IT 68620-34-8P 68620-35-9P 68620-36-0P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
RN 68620-34-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2-chloro-1-propenyl)-2,2-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)

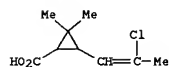


RN 68620-35-9 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2-chloro-1-propenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



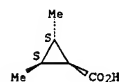
RN 68620-36-0 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2-chloro-1-propenyl)-2,2-dimethyl-, (9CI) (CA INDEX NAME)

L7 ANSWER 119 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



L7 ANSWER 120 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1978:529076 CAPLUS
DOCUMENT NUMBER: 89:129076
TITLE: Facile preparation of optically active c-2,t-3-dimethyl-r-1-methoxycyclopropane
AUTHOR(S): Andrist, A. Harry; Agnello, Richard M.; Wolfe, David
CORPORATE SOURCE: C. Dep. Chem., Cleveland State Univ., Cleveland, Ohio, USA
SOURCE: J. Org. Chem. (1978), 43(17), 3422-3
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Optically active c-2,t-3-dimethyl-r-1-methoxycyclopropane was prepd. through a synthetic sequence starting with (1) the cupric trifluoromethanesulfonate catalyzed reaction of trans-2-butene with Et diazoacetate, followed by (2) formic acid transesterification to give the corresponding carboxylic acid, (3) fractional recrystn. of the diastereomeric quinine salts and subsequent hydrolysis to the optically active acid, (4) conversion to the active ketone with MeLi, (5) Baeyer-Villiger oxidn. to the optically-active cyclopropyl acetate, (6) conversion to the cyclopropanol with MeLi, and (7) AlCl3-catalyzed methylation with diazomethane.
IT 66791-91-1P 66791-92-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and hydrolysis of)
RN 66791-91-1 CAPLUS
CN Cinchon-9-ol, 6'-methoxy-, (8.alpha.,9R)-, (1.alpha.,2.alpha.,3.beta.)-(1,2,3-dimethylcyclopropanecarboxylate (salt) (9CI) (CA INDEX NAME)
CH 1
CRN 20431-71-4
CMF C6 H10 O2
CDES *

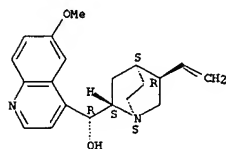
Rotation (-). Absolute stereochemistry unknown.



CH 2
CRN 130-95-0
CMF C20 H24 N2 O2

L7 ANSWER 120 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
CDES 4:8A,9R.CINCHONAN

Absolute stereochemistry.

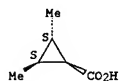


RN 66791-92-2 CAPLUS
CN Cinchonan-9-ol, 6'-methoxy-, (8.alpha.,9R)-,
(1.alpha.,2.alpha.,3.beta.)-(+)-2,3-dimethylcyclopropanecarboxylate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 20431-72-5
CMF C6 H10 O2
CDES *

Rotation (+). Absolute stereochemistry unknown.



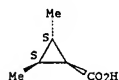
CM 2

CRN 130-95-0
CMF C20 H24 N2 O2
CDES 4:8A,9R.CINCHONAN

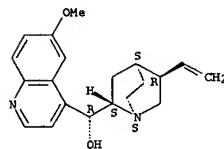
Absolute stereochemistry.

L7 ANSWER 120 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
(prepn. of, and reaction with methyllithium)
RN 20431-71-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,3-dimethyl-,
(1.alpha.,2.alpha.,3.beta.)-(+)- (9CI) (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.



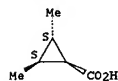
L7 ANSWER 120 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



IT 20431-72-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction with methyllithium)

RN 20431-72-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2,3-dimethyl-,
(1.alpha.,2.alpha.,3.beta.)-(+)- (9CI) (CA INDEX NAME)

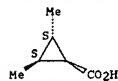
Rotation (+). Absolute stereochemistry unknown.



IT 20431-63-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and resolu. of)

RN 20431-63-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,3-dimethyl-,
(1.alpha.,2.alpha.,3.beta.)-(+)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 56711-67-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and sapon. of)

RN 56711-67-2 CAPLUS

IT 20431-71-4P
RL: SPN (Synthetic preparation); PREP (Preparation)

L7 ANSWER 121 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1978:508232 CAPLUS
DOCUMENT NUMBER: 89:108232
TITLE: A highly enantioselective synthesis of
cyclopropane

derivatives through chiral cobalt(II) complex
catalyzed carbenoid reaction. General scope and
factors determining the enantioselectivity
Nakamura, Akira; Konishi, Akira; Tatsuno,

AUTHOR(S):
Yoshitaka;

CORPORATE SOURCE: Otsuka, Sei
SOURCE: Fac. Sci., Osaka Univ., Osaka, Japan
J. Am. Chem. Soc. (1978), 100(11), 3443-8
CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal
LANGUAGE: English

AB Optically active cyclopropane derivs., e.g., cis- and trans-2-phenylcyclopropanecarboxylic acid, were prepd. by carbenoid-type reactions between olefins and diazoalkanes catalyzed by bis[(-)-camphorquinone-alpha.-dioximate]cobalt(II). A high enantioselectivity (max. 88% optical

yield) was achieved with a high chem. yield (90-95%) for the prepn. of neopentyl trans-2-phenylcyclopropanecarboxylate using a 3 mol% catalyst concn. at 0.degree.. The reaction occurs selectively at a terminal double bond conjugated with a vinyl, aryl or alkoxycarbonyl group. Diazo compds. contg. electron-attracting groups (CO2R, COR or

CN) can be used. The (1S) enantiomer was always in large excess (60-80% ee)

in the 2-substituted cyclopropanecarboxylates obtained with this catalyst.

IT 699-23-0P 939-89-9P 939-90-2P

2183-90-6P 3999-56-2P 7150-12-1P

16205-67-7P 27070-05-9P 27070-06-0P

34702-96-0P 34703-00-9P 52345-59-2P

52345-60-5P 67428-04-0P 67428-05-1P

67428-06-2P 67428-07-3P 67463-06-3P

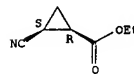
67463-07-4P 67463-08-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 699-23-0 CAPLUS

CN Cyclopropanecarboxylic acid, 2-cyano-, ethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

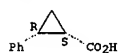
Relative stereochemistry.



RN 939-89-9 CAPLUS

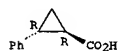
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



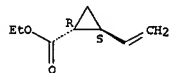
RN 939-90-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



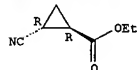
RN 2183-90-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2-ethenyl-, ethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

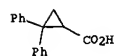


RN 3999-56-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-cyano-, ethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

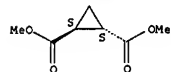


RN 7150-12-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-diphenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



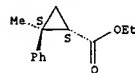
RN 16205-67-7 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, dimethyl ester, (1S-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



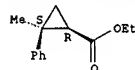
RN 27070-05-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-2-phenyl-, ethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



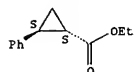
RN 27070-06-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-methyl-2-phenyl-, ethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



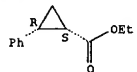
RN 34702-96-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1S,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



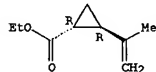
RN 34703-00-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, ethyl ester, (1S,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



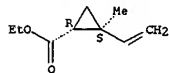
RN 52345-59-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(1-methylethenyl)-, ethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



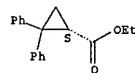
RN 52345-60-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2-ethenyl-2-methyl-, ethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



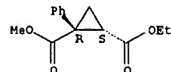
RN 67428-04-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-diphenyl-, ethyl ester, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



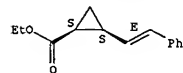
RN 67428-05-1 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1-phenyl-, 2-ethyl 1-methyl ester, (1R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



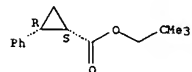
RN 67428-06-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(2-phenylethenyl)-, ethyl ester, [1.alpha.,2.alpha.(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry. Double bond geometry as shown.



RN 67428-07-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, 2,2-dimethylpropyl ester, (1S-cis)- (9CI) (CA INDEX NAME)

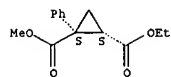
Absolute stereochemistry.



RN 67463-06-3 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1-phenyl-, 2-ethyl 1-methyl ester, (1S-trans)- (9CI) (CA INDEX NAME)

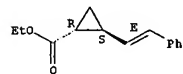
Absolute stereochemistry.

L7 ANSWER 121 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



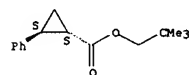
RN 67463-07-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-(2-phenylethenyl)-, ethyl ester, [1.alpha.,2.beta.(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



RN 67463-08-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, 2,2-dimethylpropyl ester, (1S-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

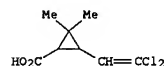


L7 ANSWER 122 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

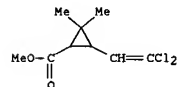
I (R = H, R1 = Me, R2 = Cl).

IT 55701-05-8P 61898-93-19
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

RN 55701-05-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (9CI) (CA INDEX NAME)



RN 61898-95-1 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, methyl ester (9CI) (CA INDEX NAME)

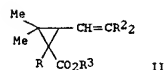


L7 ANSWER 122 OF 139 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1978:152110 CAPLUS
DOCUMENT NUMBER: 88:152110
TITLE: Substituted cyclopropanecarboxylic acid esters
INVENTOR(S): Mori, Fumio; Oomura, Yusho; Nishida, Takuji; Itoi, Kazuo
PATENT ASSIGNEE(S): Kuraray Co., Ltd., Japan
SOURCE: Japan. Kokai, 12 pp.
CODEN: JKOXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52133953	A2	19771109	JP 1976-50595	19760430
GB 1561502	A	19800220	GB 1976-30587	19760722
US 4458090	A	19840703	US 1981-311896	19811015
US 4468521	A	19840828	US 1982-350566	19820222
PRIORITY APPLN. INFO.:			JP 1976-89507	19750722
			JP 1975-158047	19751229
			JP 1976-50595	19760430
			US 1976-705176	19760714
			US 1977-840279	19771007

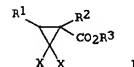
GI



AB R1O2CCHRCMe2CHR2CH2CR23, R1O2CCHRCMe2CHR2CH:CR22 (I), R2O2CCHRCMe2CH:CHCR23
(R = H, alkyl; R1 = alc. residue; R2 = halo), or their mixts. were treated with alkali hydroxide and then with acids to give the cyclopropanecarboxylic acid esters II (R3 = alc. residue) and 3,3-dimethyl-4-(2,2-dihalovinyl)-4-butanolide (III), which were sepd. by heating with an acid catalyst. III was treated with H halide and alc. to regenerate the starting material. II were useful for manufg. pyrethrin pesticides (no data). Thus, 26 parts I (R = H; R1 = Me; R2 = Cl), was treated with NaOH-MeOH to give a mixt. of II (R = H, R2 = Cl, R3 = Me) and III, which was refluxed in MeOH-p-MeC6H4SO3H for 20 h to give a mixt. contg. 69% II (R = H, R2 = Cl, R3 = Me) and 26% III, which was evapd. in vacuo to give 13.9 parts I (R = H, R2 = Cl, R3 = Me) and 4.7 parts III. III was treated with 50% HCl-MeOH overnight to give 5.6 parts

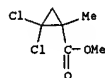
L7 ANSWER 123 OF 139 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1978:89162 CAPLUS
DOCUMENT NUMBER: 88:89162
TITLE: Chemistry of gem-dihalocyclopropanes. XII. Preparation of gem-dibromocyclopropyl ketones and alkyl gem-dibromocyclopropanecarboxylates under transfer conditions
AUTHOR(S): Sydnos, Leiv K.
CORPORATE SOURCE: Dep. Chem., Univ. Oslo, Oslo, Norway
SOURCE: Acta Chem. Scand., Ser. B (1977), 31(9), 823-5
CODEN: ACBOCV
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB Treatment of R1CH:CR2CO2R3 (R1 = H, Me, Ph; R2 = Me, Ph; R3 = Me, Et, Bu) with 30-100% excess of HX3 (X = Cl, Br), and 5-fold excess of base for 16 h in the presence of Et3N+CH2PhCl- gave 6-95% cyclopropanes I. Similarly, MeCOCH:CH2 gave 79% 2-acetyl-1,1-dibromo-2-methylcyclopropane. Reactions of mesityl oxide, phorone, and Me cinnamate with CHBr3 gave no identifiable products. When carvone and CHX3 were exposed to the phase transfer conditions a regioselective reaction took place and 7,7-dihalo-4-isopropenyl-1-methylbicyclo[4.1.0]heptan-2-one was the only isolatable product; no compd. arising from addn. to the exocyclic double bond was detected.
IT 1447-13-8P 1447-14-9P 5365-21-9P
39646-99-6P 39647-01-3P 39647-03-5P
58683-49-1P 65655-78-9P 65655-79-0P
65655-80-3P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
RN 1447-13-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dichloro-1-methyl-, methyl ester (7CI, 8CI, 9CI) (CA INDEX NAME)

L7 ANSWER 123 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



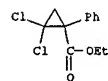
RN 1447-14-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dichloro-1-methyl- (6CI, 7CI, 8CI, 9CI)
(CA INDEX NAME)



RN 5365-21-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dibromo-1-methyl- (7CI, 8CI, 9CI)
(CA INDEX NAME)

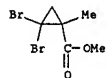


RN 39646-99-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dibromo-1-phenyl-, ethyl ester (9CI)
(CA INDEX NAME)

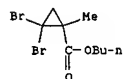


RN 39647-01-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dibromo-1-methyl-, methyl ester (9CI)
(CA INDEX NAME)

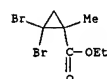
L7 ANSWER 123 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



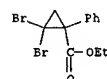
RN 39647-03-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dibromo-1-methyl-, butyl ester (9CI)
(CA INDEX NAME)



RN 58683-49-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dibromo-1-methyl-, ethyl ester (9CI)
(CA INDEX NAME)



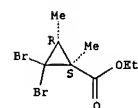
RN 65655-78-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dibromo-1-phenyl-, ethyl ester (9CI)
(CA INDEX NAME)



RN 65655-79-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dibromo-1,3-dimethyl-, ethyl ester, trans- (9CI) (CA INDEX NAME)

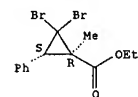
Relative stereochemistry.

L7 ANSWER 123 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

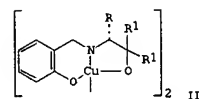


RN 65655-80-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dibromo-1-methyl-3-phenyl-, ethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

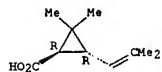


L7 ANSWER 124 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1978:37973 CAPLUS
DOCUMENT NUMBER: 88:37973
TITLE: Asymmetric synthesis of chrysanthemic acid. An application of copper carbenoid reaction
AUTHOR(S): Aratani, T.; Yoneyoshi, Y.; Nagase, T.
CORPORATE SOURCE: Cent. Res. Lab., Sumitomo Chem. Co., Ltd., Osaka, Japan
SOURCE: Tetrahedron Lett. (1977), (30), 2599-602
CODEN: TELEAY
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB Alkyl chrysanthemates were prepd. by reaction of alkyl diazoacetates with (Me2C:CH)2 (I) in the presence of the copper complexes II [R = Me, R1 = 5,2-Me3C[Me(CH2)7O]C6H3, 2,5-BuO(Me3C)C6H3; R = PhCH2, R1 = 5,2-MeC[Me(CH2)6O]C6H3]. E.g., 1-menthyl diazoacetate with I and (R)-II [R = Me, R1 = 5,2-Me3C[Me(CH2)7O]C6H3] at 20.degree. for 7 h gave 72% 1-menthyl chrysanthemate with 94% enantiomeric excess (ee) of the trans isomer. A catalyst of R-configuration gives d-chrysanthemic acid in both cis and trans isomers. The bulkier the alkyl group of the diazo compd. the higher the trans/cis ratio of the product and the ee of the trans isomer.
IT 4638-92-0P
RL: SPN (Synthetic preparation); PREP (Preparation) (asym. prepn. of)
RN 4638-92-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1R,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 26771-11-9F 40999-13-1P 56194-30-0P

63254-59-1P 63323-85-3P 63323-87-5P

64312-83-0P 65395-64-4P 65395-65-5P

65395-66-6P 65395-67-7P 65437-24-3P

65437-25-4P 65437-26-5P 65437-27-6P

65437-28-7P 65437-29-8P 65437-30-1P

65437-31-2P 65437-32-3P 65450-90-0P

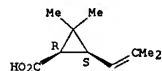
RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of)

RN 26771-11-9 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1R,3S)- (9CI) (CA INDEX NAME)

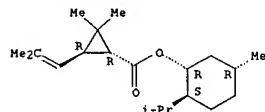
Absolute stereochemistry.



RN 40999-13-1 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1R,2S,5R)-5-methyl-2-(1-methylethyl)cyclohexyl ester, (1R,3R)- (9CI) (CA INDEX NAME)

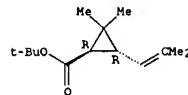
Absolute stereochemistry. Rotation (+).



RN 56194-30-0 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1,1-dimethylethyl ester, (1R-trans)- (9CI) (CA INDEX NAME)

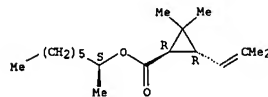
Absolute stereochemistry.



RN 63254-59-1 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1-methylheptyl ester, [1R-[1.alpha.(S*),3.beta.]]- (9CI) (CA INDEX NAME)

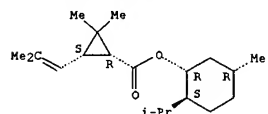
Absolute stereochemistry.



RN 63323-85-3 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1R,2S,5R)-5-methyl-2-(1-methylethyl)cyclohexyl ester, (1R,3S)- (9CI) (CA INDEX NAME)

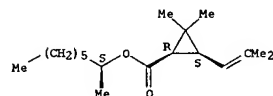
Absolute stereochemistry.



RN 63323-87-5 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1-methylheptyl ester, [1R-[1.alpha.(S*),3.alpha.]]- (9CI) (CA INDEX NAME)

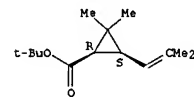
Absolute stereochemistry.



RN 64312-83-0 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1,1-dimethylethyl ester, (1R-cis)- (9CI) (CA INDEX NAME)

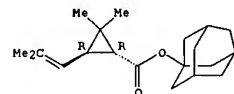
Absolute stereochemistry.



RN 65395-64-4 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, tricyclo[3.3.1.1^{3,7}]dec-1-yl ester, (1R-trans)- (9CI) (CA INDEX NAME)

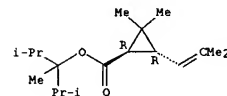
Absolute stereochemistry.



RN 65395-65-5 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1,2-dimethyl-1-(1-methylethyl)propyl ester, (1R-trans)- (9CI) (CA INDEX NAME)

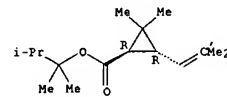
Absolute stereochemistry.



RN 65395-66-6 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1,1,2-trimethylpropyl ester, (1R-trans)- (9CI) (CA INDEX NAME)

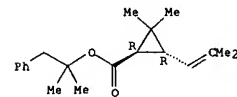
Absolute stereochemistry.



RN 65395-67-7 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1,1-dimethyl-2-phenylethyl ester, (1R-trans)- (9CI) (CA INDEX NAME)

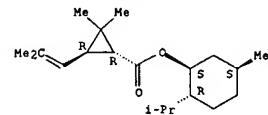
Absolute stereochemistry.



RN 65437-24-3 CAPLUS

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, [1S-[1.alpha.(1S*,3S*),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

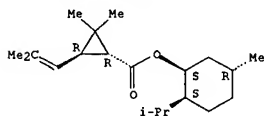
Absolute stereochemistry.



L7 ANSWER 124 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

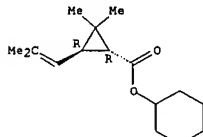
RN 65437-25-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, [1S-[1.alpha.(1S*,3R*),2.alpha.,5.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



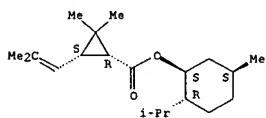
RN 65437-26-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, cyclohexyl ester, (1R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



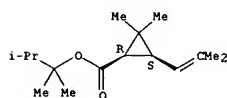
RN 65437-27-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, [1S-[1.alpha.(1S*,3R*),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



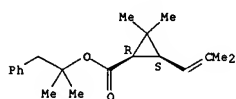
RN 65437-28-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, [1S-

L7 ANSWER 124 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



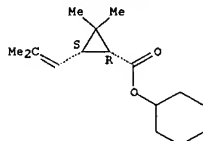
RN 65437-32-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1,1-dimethyl-2-phenylethyl ester, (1R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



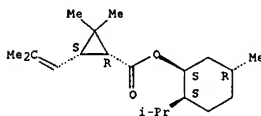
RN 65450-90-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, cyclohexyl ester, (1R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



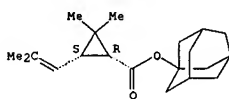
L7 ANSWER 124 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
[1.alpha.(1S*,3R*),2.alpha.,5.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



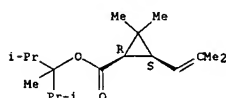
RN 65437-29-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, tricyclo[3.3.1.1.3,7]dec-1-yl ester, (1R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 65437-30-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1,2-dimethyl-1-(1-methylethyl)propyl ester, (1R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 65437-31-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 1,1,2-trimethylpropyl ester, (1R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 125 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1977:534690 CAPLUS
DOCUMENT NUMBER: 87:134690
TITLE: Phenoxybenzyl esters
INVENTOR(S): Wood, Derek Alexander
PATENT ASSIGNEE(S): shell int., Neth.
SOURCE: Ger. Offen., 14 pp.
CODEN: GWXXEX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2651341	A1	19770526	DE 1976-2651341	19761110
GB 1559799	A	19800130	GB 1975-46700	19751112
NL 7612461	A	19770516	NL 1976-12461	19761110
JP 52062238	A2	19770523	JP 1976-134268	19761110
JP 61008053	B4	19860311		
FR 2331545	A1	19770610	FR 1976-33901	19761110
FR 2331545	B1	19801107		
BR 7607517	A	19770920	BR 1976-7517	19761110
IL 50880	A1	19801026	IL 1976-50880	19761110
CH 621109	A	19810115	CH 1976-14181	19761110
US 4118413	A	19781003	US 1977-824459	19770815
US 4118413	B1	19840124	US 1983-90000233	19830726
PRIORITY APPLN. INFO.:			GB 1975-46700	19751112
			US 1976-737312	19761101
			US 1977-824459	19770815

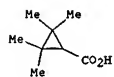
AB Pesticidal RCO₂CHR₁CGH₄OPh (R = substituted cyclopropyl, 4-ClCGH₄CHCGHMe₂; R₁ = H, CN) were prepd. by the reaction of a stirred neutralized aq. soln.

of RCO₂H with PhOCGH₄CHR₁Br in the presence of PhMe and a phase-transfer agent, e.g., a quaternary ammonium salt. Thus, aq. 4-ClCGH₄CH(CO₂H)CHMe₂ was neutralized with K₂CO₃, followed by the addn. of Bu₄NBr (I), 3-PhOCGH₄CHBrCN, and PhMe, and the mixt. was stirred at 35.degree. to give

98% 4-ClCGH₄CH(CHMe₂)CO₂CH(CN)CGH₄OPh-3 of 98% purity, compared to 40% yield without I.
IT 15641-58-4 53179-78-5 55701-05-8
63538-10-3 63597-73-9
RL: RCT (Reactant)
(esterification of, by phenoxybenzyl bromides)

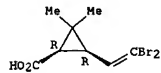
RN 15641-58-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl- (6CI, 8CI, 9CI) (CA INDEX NAME)

L7 ANSWER 125 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

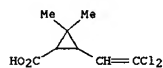


RN 53179-78-5 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, (1R,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

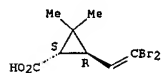


RN 55701-05-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (1R,3R)- (9CI) (CA INDEX NAME)



RN 63538-10-3 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, (1R,3S)-rel- (9CI) (CA INDEX NAME)

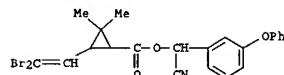
Relative stereochemistry.



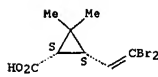
RN 63597-73-9 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L7 ANSWER 125 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

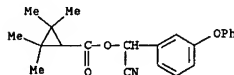


L7 ANSWER 125 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

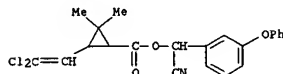


IT 39515-41-8P 52315-07-8P 52645-53-1P
52820-00-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

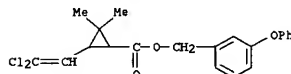
RN 39515-41-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl-, cyano(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 52315-07-8 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 52645-53-1 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 52820-00-5 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, cyano(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)

L7 ANSWER 126 OF 139 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1977:468506 CAPLUS
DOCUMENT NUMBER: 87:68506
TITLE: Optically active alkylchrysanthemate
INVENTOR(S): Aratani, Tadatoshi; Yoneyoshi, Yukio; Fujita, Fumio;
Nagase, Tsuneyuki
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Ger. Offen., 28 pp.
CODEN: GWXXEX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2634663	A1	19770317	DE 1976-2634663	19760802
DE 2634663	B2	19790531		
DE 2634663	C3	19800117		
JP 52017448	A2	19770209	JP 1975-94349	19750801
JP 59010336	B4	19840308		

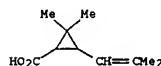
PRIORITY APPLN. INFO.: JP 1975-94349 19750801

GI For diagram(s), see printed CA issue.

AB Optically active alkyl chrysanthemates were prepd. by treating the appropriate alkyl diazoacetates with Me2C:CHCH:CMe2 in the presence of a Cu complex with chiral ligands. For example, a soln. of 0.03 g (R)-1 [R] = Me, R2 = O(CH2)7Me in 17.6 g Me2C:CHCH:CMe2 was treated with a mixt. of 4.4 g Me2C:CHCH:CMe2 and 1-menthyl diazoacetate to give 4.7 g of a stereoisomeric mixt. of 1-menthyl chrysanthemates, sepd. by gas chromatog. I [R1, R2, abs. configuration of ligand given: Me, O(CH2)7Me, S; Me, OCHMe2, S; Me, OBU, R; CH2Ph, O(CH2)6Me, R; CH2Ph, O(CH2)6Me, S] also reacted with the diazoacetates of dl-menthol, d-neomenthol, dl-borneol, 1-adamantanol, cyclohexanol, .alpha.,.alpha.-dimethyl-1-.beta.-(1-menthylloxy)ethanol, Me3COH, Me2CHCMe2OH, (Me2CH)2CMeOH, or PhCMe2OH to give the optically active alkyl chrysanthemates.

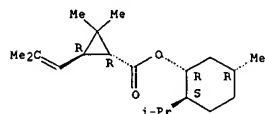
IT 10453-89-1P
RL: PREP (Preparation)
(by hydrolysis of alkyl chrysanthemates)

RN 10453-89-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)- (9CI) (CA INDEX NAME)



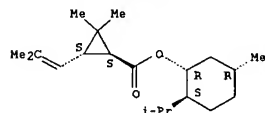
L7 ANSWER 126 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 IT 40999-13-1P 40999-14-2P 63323-85-3P
 63323-86-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and hydrolysis of)
 RN 40999-13-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 (1R,2S,5R)-5-methyl-2-(1-methylethyl)cyclohexyl ester, (1R,3R)-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 40999-14-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 (1R,2S,5R)-5-methyl-2-(1-methylethyl)cyclohexyl ester, (1S,3S)-
 (9CI) (CA INDEX NAME)

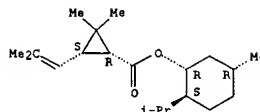
Absolute stereochemistry. Rotation (-).



RN 63323-85-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 (1R,2S,5R)-5-methyl-2-(1-methylethyl)cyclohexyl ester, (1R,3S)-
 (9CI) (CA INDEX NAME)

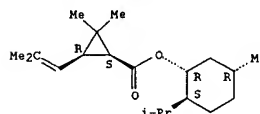
Absolute stereochemistry.

L7 ANSWER 126 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



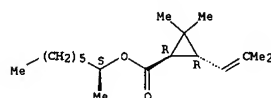
RN 63323-86-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 (1R,2S,5R)-5-methyl-2-(1-methylethyl)cyclohexyl ester, (1S,3R)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



IT 63254-59-1P 63323-87-5P 63323-88-6P
 63323-89-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 63254-59-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 1-methylheptyl ester, [1R-[1.alpha.(S*),3.beta.]]- (9CI) (CA INDEX NAME)

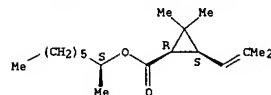
Absolute stereochemistry.



RN 63323-87-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 1-methylheptyl ester, [1R-[1.alpha.(S*),3.alpha.]]- (9CI) (CA INDEX NAME)

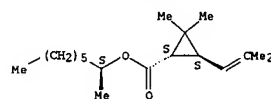
Absolute stereochemistry.

L7 ANSWER 126 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



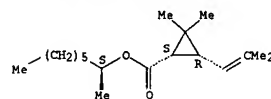
RN 63323-88-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 1-methylheptyl ester, [1S-[1.alpha.(R*),3.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 63323-89-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
 1-methylheptyl ester, [1S-[1.alpha.(R*),3.alpha.]]- (9CI) (CA INDEX NAME)

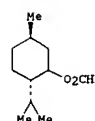
Absolute stereochemistry.



L7 ANSWER 127 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1977:88454 CAPLUS
 DOCUMENT NUMBER: 86:88454
 TITLE: Esterification of carboxylic acids in presence of
 intercalary compounds of acid and graphite
 bisulfate
 INVENTOR(S): Kagan, Henri; Bertin, Jean; Luche, Jean L.;
 Setton, Ralph
 PATENT ASSIGNEE(S): Agence Nationale de Valorisation de la Recherche,
 Fr.
 SOURCE: Fr. Demande, 9 pp.
 CODEN: FROXBL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2288079	A1	19760514	FR 1974-34673	19741015
FR 2288079	B1	19770318		

GI



AB Esterification of carboxylic acids by alcs. is facilitated by treating
 equimolar amts. of acid and alc. in cyclohexane at room temp. with
 30-60%
 (on acid) of graphite bisulfate, C24+HSO4-.2H2SO4, prepd. by
 electrolysis
 of 98% H2SO4 on a graphite electrode. Thus, I was prepd. in 98% yield
 with retention of configuration.

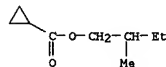
IT 1759-53-1
 RL: RCT (Reactant)
 (esterification of, with alcs., graphite bisulfate catalyst
 for)

RN 1759-53-1 CAPLUS
 CN Cyclopropanecarboxylic acid (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



IT 61889-13-2P

L7 ANSWER 127 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 61889-13-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-methylbutyl ester (9CI) (CA INDEX NAME)

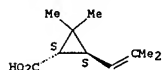


L7 ANSWER 128 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1975:514679 CAPLUS
 DOCUMENT NUMBER: 83:114679
 TITLE: cis-Chrysanthemic acid
 INVENTOR(S): Honda, Toshiro; Itaya, Nobushige; Horiuchi, Fumashi;
 Higo, Akio
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
 SOURCE: Ger. Offen., 22 pp.
 CODEN: GWXXEX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2440745	A1	19750327	DE 1974-2440745	19740826
DE 2440745	B2	19760526		
DE 2440745	C3	19770203		
JP 50047952	A2	19750428	JP 1973-96522	19730827
JP 50082035	A2	19750703	JP 1973-131988	19731122
JP 52031333	B4	19770813		
JP 50084549	A2	19750708	JP 1973-135976	19731130
NL 7411205	A	19750303	NL 1974-11205	19740822
GB 1432518	A	19760422	GB 1974-37130	19740823
US 3989654	A	19761102	US 1974-500018	19740823
DK 7404531	A	19750428	DK 1974-4531	19740826
DK 134546	B	19761129		
FR 2257565	A1	19750808	FR 1974-29108	19740826
FR 2257565	B1	19790105		
CH 603532	A	19780831	CH 1974-11666	19740827
PRIORITY APPLN. INFO.:			JP 1973-96522	19730827
			JP 1973-131988	19731122
			JP 1973-135976	19731130

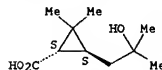
GI For diagram(s), see printed CA Issue.
 AB Me trans-.delta.-hydroxydihydrochrysanthemate (I, R = OH), obtained by hydrolysis of I (R = Cl), was treated with an alkali metal alkoxide to give a mixt. of cis-chrysanthemic acid (I, R1 = Me2C:CH) (III) and cis-isochrysanthemic acid (II, R1 = CH2:CHMe2) (IV); the latter cyclized in the presence of a catalyst to give the lactone V which was removed from the mixt. to give a higher concn. of III. Thus, 5 g a 55:45 mixt. of III and IV in 50 ml H2O, obtained by treating I (R = OH) with NaOH-NaOMe, was heated with 0.25 g maleic acid for 5 hr, the reaction mixt. acidified and extd. with Et2O to give a 9:1 mixt. of III and IV. From the water layer 1.8 g V was isolated. The phenoxybenzyl ester of III was useful as a mosquito insecticide.
 IT 705-16-8
 RL: RCT (Reactant)
 (hydrochlorination of)
 RN 705-16-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1R,3R)-rel- (9CI) (CA INDEX NAME)

L7 ANSWER 128 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 Relative stereochemistry.



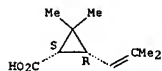
IT 56907-92-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and conversion to dihydrochrysanthemolactone)
 RN 56907-92-7 CAPLUS
 IT 56941-78-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and dehydration of)
 RN 56941-78-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 3-(2-hydroxy-2-methylpropyl)-2,2-dimethyl-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 56859-08-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and hydrolysis of)
 RN 56859-08-6 CAPLUS
 IT 2935-23-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and purifn. of)
 RN 2935-23-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1R,3S)-rel- (9CI) (CA INDEX NAME)

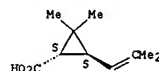
Relative stereochemistry.



IT 56859-09-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and removal from mixt. with cis-chrysanthemic acid)
 RN 56859-09-7 CAPLUS

L7 ANSWER 129 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1975:479389 CAPLUS
 DOCUMENT NUMBER: 83:19389
 TITLE: Asymmetric synthesis of chrysanthemic acid.
 Application of copper carbenoid reaction
 AUTHOR(S): Aratani, T.; Yoneyoshi, Y.; Nagase, T.
 CORPORATE SOURCE: Cent. Res. Lab., Sumitomo Chem. Co., Ltd., Osaka, Japan
 SOURCE: Tetrahedron Lett. (1975), (21), 1707-10
 CODEN: TELEAY
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB N2CHCO2Et in (Me2C:CH)2 decompd. in the presence of a Cu catalyst 1 to give an isomeric mixt. of the title acid II (R = H). Thus (S)-I (R = R1 = Me, R2 = H), prepd. by reaction of (S)-MeCH(NH2)CO2Et with the Grignard reagent derived from 2-MeOC6H4Br and reaction of the resulting alc. with 2-HOC6H4CHO and Cu(OAc)2, reacted with N2CHCO2Et in (Me2C:CH)2 to give 64% of a cis-trans mixt. of the ester II (R = Et). Hydrolysis of this ester gave the title acid II (R = H). When the catalyst I had an (S) configuration, the acid II (R = H) was predominantly levorotatory, when the configuration was (R), dextrorotatory acid II (R = H) was formed predominantly. The optical activity of the acid II (R = H) increased with the bulkiness of the substituents R1 and R2 of I.
 IT 15543-65-4P 22467-82-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and hydrolysis of)
 RN 15543-65-4 CAPLUS
 RN 22467-82-9 CAPLUS
 IT 2259-14-5P 4638-92-0P 26771-06-2P 26771-11-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 2259-14-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1S,3S)- (9CI) (CA INDEX NAME)

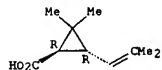
Absolute stereochemistry.



RN 4638-92-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1R,3R)- (9CI) (CA INDEX NAME)

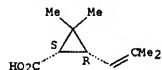
Absolute stereochemistry. Rotation (+).

L7 ANSWER 129 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



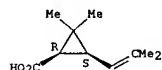
RN 26771-06-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1S,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 26771-11-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



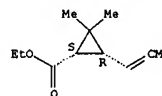
L7 ANSWER 130 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1975:3854 CAPLUS
DOCUMENT NUMBER: 82:3854
TITLE: Chrysanthemic acid and copper catalysts for its preparation
INVENTOR(S): Aratani, Tadatoshi; Nakamura, Shuzo; Nagase, Tsuneyuki; Yoneyoshi, Yukio
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd.
SOURCE: Ger. Offen., 36 pp.
CODEN: GWXXEX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2407094	A1	19740905	DE 1974-2407094	19740214
DE 2407094	C2	19850110		
JP 49102649	A2	19740927	JP 1973-18642	19730214
JP 50018439	A2	19750226	JP 1973-69998	19730620
JP 50024254	A2	19750315	JP 1973-69997	19730620
JP 53043555	B4	19781124		
IL 44167	A1	19790930	IL 1974-44167	19740207
NL 7401785	A	19740816	NL 1974-1785	19740208
CH 594593	A	19780113	CH 1974-1896	19740212
BE 810959	A1	19740529	BE 1974-140845	19740213
FR 2217312	A1	19740906	FR 1974-4901	19740213
FR 2217312	B1	19800523		
IT 1004954	A	19760720	IT 1974-67422	19740213
DK 136642	B	19771107	DK 1974-756	19740213
SU 689615	D	19790930	SU 1974-1999312	19740213
GB 1455189	A	19761110	GB 1974-6828	19740214
CA 1016553	A1	19770830	CA 1974-192555	19740214
US 4029690	A	19770614	US 1975-549034	19750211
DK 7505401	A	19751128	DK 1975-5401	19751128
DK 152728	B	19880502		
DK 152728	C	19880926		
US 4029683	A	19770614	US 1975-645541	19751229

PRIORITY APPLN. INFO.:
JP 1973-18642 19730214
JP 1973-69997 19730620
JP 1973-69998 19730620
DK 1974-756 19740213
US 1974-442413 19740214
US 1975-549034 19750211
GI For diagram(s), see printed CA Issue.
AB Mixts. of Et cis- and trans-chrysanthemumate (I), from which chrysanthemic acid was obtained by hydrolysis, were prepd. by reaction of (Me2C:CH)2 with N2CHCO2Et in the presence of the Cu complexes II (Rn = H, 3,5-Br2, 3-EtO, or 5,6-benzo; R1 = Me, CHMe2, CH2CHMe2, CH2Ph, CH2C6H4OCHMe2-4, or cyclohexylmethyl; R2 = Cl-8 alkyl, Ph, or CH2Ph; R3 = H, Me, CHMe3, or OBU) and III (x = 2 or 3; R4 = CH2Ph or CH2CHMe2). II were prepd. by reaction of salicylaldehydes with H2NCHR1C(OH) [C6H3(OR2)R3-2,5]2 to give the Schiff bases, which reacted with

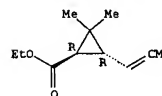
L7 ANSWER 130 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
(AcO)2Cu.H2O. Three III were prepd. by reaction of bis(salicylaldehyde) copper with H2NCHR4C(OH) (C6H4OMe-x)2.
IT 16642-27-6P 41641-25-2P 41641-26-3P
41641-27-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and hydrolysis of)
RN 16642-27-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl ester, (1S,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



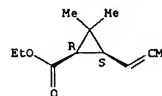
RN 41641-25-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl ester, (1R,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 41641-26-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl ester, (1R,3S)- (9CI) (CA INDEX NAME)

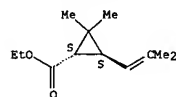
Absolute stereochemistry.



RN 41641-27-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl ester, (1S,3S)- (9CI) (CA INDEX NAME)

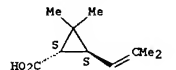
L7 ANSWER 130 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
ester, (1S,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



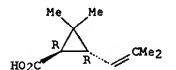
IT 2259-14-5P 4638-92-0P 26771-06-2P
26771-11-9P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
RN 2259-14-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1S,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



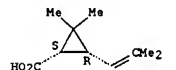
RN 4638-92-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1R,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



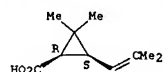
RN 26771-06-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1S,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 130 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
RN 26771-11-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
(1R,3S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



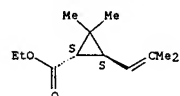
L7 ANSWER 131 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1974:70421 CAPLUS
DOCUMENT NUMBER: 80:70421
TITLE: 2,2-Dimethyl-3-(2'-methyl)-1'-propenyl-1,3-trans-
cyclopropane-1-carboxylic acid and its alkyl
esters
INVENTOR(S): Nagase, Tsuneyuki; Suzukamo, Gohfu; Yoneyoshi,
Yukio;
PATENT ASSIGNEE(S): Yoshioka, Hirotsuke
SOURCE: Sumitomo Chemical Co., Ltd., Japan
Ger. Offen., 37 pp.
CODEN: GWXXRX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2324473	A1	19731129	DE 1973-2324473	19730515
DE 2324473	B2	19770811		
JP 49011855	A2	19740201	JP 1972-48852	19720516
JP 49011856	A2	19740201	JP 1972-49695	19720518
JP 49013149	A2	19740205	JP 1972-56258	19720605
JP 55016568	B4	19800502		
JP 49031883	A2	19740322	JP 1972-77905	19720802
JP 49124049	A2	19741127	JP 1973-25472	19730301
JP 56012626	B4	19810323		
US 3906026	A	19750916	US 1973-358988	19730510
CA 999011	A	19761026	CA 1973-171066	19730511
GB 1426000	A	19760225	GB 1973-22869	19730514
BE 799541	A1	19731116	BE 1973-131115	19730515
FR 2184867	A1	19731228	FR 1973-17553	19730515
IT 986561	A	19750130	IT 1973-68398	19730515
CH 581088	A	19761029	CH 1973-6886	19730515
DK 140694	B	19791029	DK 1973-2674	19730515
DK 140694	C	19800519		
SU 929007	A3	19820515	SU 1973-1922039	19730515
NL 7306857	A	19731120	NL 1973-6857	19730516
US 3874277	A	19750401	US 1973-374125	19730627
PRIORITY APPLN. INFO.:			JP 1972-48852	19720516
			JP 1972-49695	19720518
			JP 1972-56258	19720605
			JP 1973-25472	19730301
			JP 1972-65256	19720618
			JP 1972-65257	19720618
			JP 1972-65255	19720628
			JP 1972-70124	19720712
			JP 1972-70125	19720712
			JP 1972-77906	19720802

GI For diagram(s), see printed CA Issue.
AB Na, K, NaH, KH, or the reaction product of an alkali metal with the
corresponding alkali metal hydroxide and calcined Al₂O₃ were used as
catalysts in the isomerization of cis-chrysanthemic acid esters to
the trans-esters (I; R = Et, Pr, Bu), which were hydrolyzed to
trans-chrysanthemic acid (I; R = H).
IT 827-90-7P 1802-02-4P

L7 ANSWER 131 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 827-90-7 CAPLUS
RN 1802-02-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,
ethyl
ester, (1R,3R)-rel- (9CI) (CA INDEX NAME)

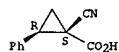
Relative stereochemistry.



L7 ANSWER 132 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1973:452672 CAPLUS
DOCUMENT NUMBER: 79:52672
TITLE: Stereochemistry. XLIV. Nucleophilic
substitution at
carbon with carbon as leaving group
AUTHOR(S): Yankee, Ernest W.; Spencer, Bert; Howe, Norman E.;
Cram, Donald J.
CORPORATE SOURCE: Dep. Chem., Univ. California, Los Angeles,
Calif., USA
SOURCE: J. Amer. Chem. Soc. (1973), 95(13), 4220-30
CODEN: JACSAT
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The stereochemical course of nucleophilic reactions with cyclopropane
derivatives, [(+)-(E)-I], and [(+)-(Z)-I], were studied. The four
stereoisomers, (+)- and (-)-(E)-I and (+)- and (-)-(Z)-I were
prepared in
an optically pure state. The relative configurations of the E and Z
isomers were established by NMR spectral comparisons, and by K = 20
for
(Z)-I .dblwr. (E)-I at 25.degree.. The abs. configurations of the Z
diastereoisomers were assigned by converting (+)-(Z)-I to (+)-methyl
2-(S)-phenyl-1-(S)-cyclopropanecarboxylate, whose abs. configuration
was
known. The relative configurations of (+)-(E)-I and (-)-(Z)-I were
established by converting their resp. acids to enantiomeric dicyano
comps. with a single chiral center. Thus (+)-(E)-I gave
(+)-1,1-dicyano-2-(R)-phenylcyclopropane, and (-)-(Z)-I gave
(-)-1,1-dicyano-2-(S)-phenylcyclopropane. When heated in MeOH at
126.degree. for 5 days, optically pure (+)-(E)-I underwent
methanolysis to
give (-)-methyl 2-cyano-4-methoxy-4-phenylbutanoate. This
diastereoisomeric mixt. was converted to (-)-methyl 4-(S)-methoxy-4-
phenylbutanoate of 99% optical purity, whose enantiomer was prepd.
(max.
rotation) from (+)-(S)-mandelic acid of established configuration.
These
data indicate the methanolysis of (+)-(E)-I went with 99% inversion of
configuration. The reaction is interpreted as occurring through
solvated
ion-pair intermediates, similar to those obsd. in solvolyses of
open-chain
secondary benzyl compds. Methanolysis kinetics were followed at 100
and
126.degree., and at 126.degree., .DELTA.H.+. = 19.4 .+-. 0.4
kcal/mole
and .DELTA.S.+. = -32 .+-. 1 eu. When (Z)-I was heated in MeOH at
126.degree. to 7% reaction, no (E)-I was produced. In dry DMF, (Z)-I
.fwdwr. (E)-I was catalyzed by lithium halides in pseudo-first-order
reactions (first order in free Cl- and Br-). At 25.degree. in
DMF-0.1 M
LiBr, optically pure (-)-(Z)-I was isomerized (9 half-lives) to 99%
optically pure (-)-(E)-I, epimerization occurring solely at the
cyanoacetate chiral center. At 34.degree. in DMF-0.1 M LiBr, the
catalyzed isomerization was .apprx.4000 times faster than thermal

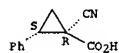
L7 ANSWER 132 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
isomerization in the same medium, and .apprx.8700 times faster than
methanolysis at 34.degree.. At 25.degree. in DMF-0.1 M LiBr, (Z)-I
equilibrated with (E)-I (K = 20). At 39.degree. in DMF, the lithium
azide
catalysis of (Z)-I to (E)-I was followed spectroscopically by loss
and
appearance of methyl (ester) signals in the nmr. A third methyl
signal
[attributed to the anion derived by proton loss from methyl
4-azido-2-cyano-4-phenylbutanoate (II)] appeared after a short time,
went
through a max., and then decreased as the signal of (E)-I increased.
From
a reaction mixt., quenched with water at max. intermediate signal,
was
isolated II. Treatment of a DMF solution of II with sodium hydride
at
25.degree. gave (E)-I/(Z)-I .apprx.10. The catalyzed isomerization
reactions are interpreted as involving consecutive SN2 reactions.
The
anionic nucleophile opens the three-membered ring to produce a
carbanion,
which rotates, and displaces the nucleophile to regenerate the
cyclopropane diastereomer.
IT 31002-44-5P 31002-46-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction with diazomethane)
RN 31002-44-5 CAPLUS
CN Cyclopropanecarboxylic acid, 1-cyano-2-phenyl-, (1S-trans)- (9CI)
(CA
INDEX NAME)

Absolute stereochemistry.



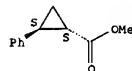
RN 31002-46-7 CAPLUS
CN Cyclopropanecarboxylic acid, 1-cyano-2-phenyl-, (1R-trans)- (9CI)
(CA
INDEX NAME)

Absolute stereochemistry.



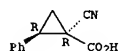
IT 42332-64-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and resolu. of)

L7 ANSWER 132 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



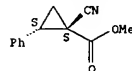
RN 31002-48-9 CAPLUS
CN Cyclopropanecarboxylic acid, 1-cyano-2-phenyl-, (1R-cis)- (9CI) (CA
INDEX
NAME)

Absolute stereochemistry.



RN 31002-49-0 CAPLUS
CN Cyclopropanecarboxylic acid, 1-cyano-2-phenyl-, methyl ester,
(1S-cis)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 42332-43-4 CAPLUS

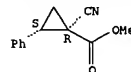
L7 ANSWER 132 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
RN 42332-64-9 CAPLUS
CN Cyclopropanecarboxylic acid, 1-cyano-2-phenyl-, cis- (9CI) (CA INDEX
NAME)

Relative stereochemistry.



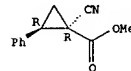
IT 42332-42-3P 42332-43-4P 42369-70-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and resolution of)
RN 42332-42-3 CAPLUS
CN Cyclopropanecarboxylic acid, 1-cyano-2-phenyl-, methyl ester, trans-
(9CI)
(CA INDEX NAME)

Relative stereochemistry.



RN 42332-43-4 CAPLUS
RN 42369-70-0 CAPLUS
CN Cyclopropanecarboxylic acid, 1-cyano-2-phenyl-, methyl ester, cis-
(9CI)
(CA INDEX NAME)

Relative stereochemistry.

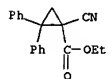


IT 16205-72-4P 31002-48-9P 31002-49-0P
42332-43-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 16205-72-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-, methyl ester, (1S,2S)- (9CI)
(CA
INDEX NAME)

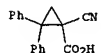
Absolute stereochemistry.

L7 ANSWER 133 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1973:452515 CAPLUS
DOCUMENT NUMBER: 79:52515
TITLE: Stereochemistry. XLIII. Racemizations and
solvolyses
of cyclopropanes through carbanion-carbonium ion
intermediates
Yankee, Ernest W.; Badea, Florin D.; Howe, Norman
E.;
Cram, Donald J.
Dep. Chem., Univ. California, Los Angeles,
Calif., USA
SOURCE: J. Amer. Chem. Soc. (1973), 95(13), 4210-19
CODEN: JACSAT
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Optically pure (+) and (-)-methyl 1-cyano-2,2-
diphenylcyclopropanecarboxylate (I) were prepd. Racemizations
(first-order rate const., kr) and solvolyses (first-order rate
const., ks)
of (+) and (-)-I were studied. In C6H6 and dry DMF only
racemization was
obsd. In MeOH at 100.degree., kr/ks > 102. At 150.degree. in MeOH
(+)-I gave 46% methyl 2-cyano-4,4-diphenyl-4-methoxybutanoate and
36% 1,1-diphenylpropene-3-carbonitrile. In AcOH at 100.degree., kr/ks
.apprx.0.5, and olefin was the main solvolysis product. In AcOH-0.1 M
p-toluenesulfonic acid, kr/ks .apprx.4 at 100.degree.. At 50.degree.
in
HCO2H, kr/ks .apprx.15. In DMF, racemization was catalyzed by, and
was
first order in, free bromide ion from 0.0132 to 0.0380 M LiBr. In
AcOH,
the racemization-solvolysis reactions were p-toluenesulfonic acid
catalyzed and followed He. Values of (kr + ks)rel at 126.degree.
were:
C6H6, 1; DMF, 5; MeOH, 20; AcOH, 25; DMF-0.1 M LiBr, 74; AcOH-0.17 M
p-toluenesulfonic acid, .apprx.250; HCO2H, 2 .times. 104. Activation
enthalpies (.DELTA.H.++, kcal/mole) were 30.4 in C6H6, 27.7 in DMF,
25.5
in MeOH, 25.9 in AcOH, and 22.9 in DMF-0.1 M LiBr. An isokinetic
plot of
.DELTA.H.++ against .DELTA.S.++ (.DELTA.H.++ = .DELTA.H0.++ +
.beta. .DELTA.S.++ was linear, .DELTA.H0.++ .apprx.36 kcal/mole and
.beta. = 762.degree.. For solvolyses of secondary benzyl systems,
.beta.
= 760.degree.. In HCO2H at 126.degree., .DELTA.H.++ = 22.9
kcal/mole.
The point for HCO2H was far from falling on the isokinetic plot. The
medium effects and changes in distribution of activation energies
between
.DELTA.H.++ and .DELTA.S.++ suggest the racemization reaction occurs
through carbanion-carbonium ion reorganization (rotation about
methylene-to-cyanoacetate bond), and collapse. Bromide ion catalysis
is
interpreted as involving interception of ion pairs equilibrating with
starting material. The carbanion produced reorganizes and collapses
to

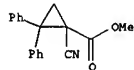
L7 ANSWER 133 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 liberate bromide ion. In HCO₂H or AcOH-p-toluenesulfonic acid,
 racemization is interpreted as involving protonation of ion pairs
 equilibrating with starting material. The carbonium ion produced
 reorganizes and collapses to liberate a proton. The products of
 solvolysis are interpreted as arising from the ion pairs by either
 capture by solvent, or by proton transfers from and to solvent.
 IT 4162-97-4P 42332-47-8P 42332-48-9P
 42332-51-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 4162-97-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-cyano-2,2-diphenyl-, ethyl ester
 (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 42332-47-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-cyano-2,2-diphenyl- (9CI) (CA INDEX NAME)



RN 42332-48-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 1-cyano-2,2-diphenyl-, methyl ester
 (9CI) (CA INDEX NAME)



RN 42332-51-4 CAPLUS

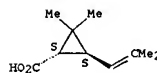
L7 ANSWER 134 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1973:159048 CAPLUS
 DOCUMENT NUMBER: 78:159048
 TITLE: Optically active alkyl chrysanthemates
 INVENTOR(S): Aratani, Tadatoshi; Nakamura, Shuzo
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd.
 SOURCE: Ger. Offen., 20 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2240257	A1	19730222	DE 1972-2240257	19720816
DE 2240257	C3	19790913		
DE 2240257	B2	19790118		
JP 48028457	A2	19730414	JP 1971-62411	19710816
JP 52031865	B4	19770817		
US 3868401	A	19750225	US 1972-276946	19720801
IT 969536	A	19740410	IT 1972-69566	19720804
BE 787473	A1	19721201	BE 1972-120884	19720811
NL 7211012	A	19730220	NL 1972-11012	19720811
FR 2149453	A1	19730330	FR 1972-29195	19720811
GB 1380111	A	19750108	GB 1972-38090	19720815
CH 568955	A	19751114	CH 1972-12068	19720815
DK 133974	B	19760823	DK 1972-4030	19720815
CA 993884	A1	19760727	CA 1972-149521	19720816
			JP 1971-62411	19710816

PRIORITY APPLN. INFO.:
 AB Optically active Et chrysanthemates were prepd. as a mixt. of cis and trans isomers by the asymmetric reaction of Me₂C:CHCH:CHMe₂ with N₂CHCO₂Et in the presence of a Cu complex contg. a chiral ligand. Yields were 24-67%, and the esters were hydrolyzed to give the corresponding optically active free acid.

IT 2259-14-5P 4638-92-0P 26771-06-2P
 26771-11-9P 41641-25-2P 41641-26-3P
 41641-27-4P 41641-28-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 2259-14-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1S,3S)- (9CI) (CA INDEX NAME)

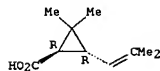
Absolute stereochemistry.



RN 4638-92-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,

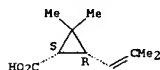
L7 ANSWER 134 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 (1R,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



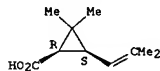
RN 26771-06-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1S,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



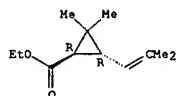
RN 26771-11-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 41641-25-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl ester, (1R,3R)- (9CI) (CA INDEX NAME)

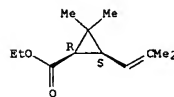
Absolute stereochemistry.



RN 41641-26-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl

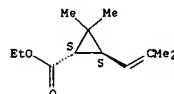
L7 ANSWER 134 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 ester, (1R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 41641-27-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl ester, (1S,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

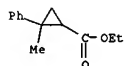


RN 41641-28-5 CAPLUS

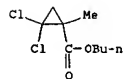
L7 ANSWER 135 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1972:153290 CAPLUS
 DOCUMENT NUMBER: 76:153290
 TITLE: Transition metal-catalyzed cyclopropanation of olefins
 AUTHOR(S): Paulissen, Robert; Hubert, A. J.; Teyssie, P.
 CORPORATE SOURCE: Lab. Macromol. Chem. Org. Catal., Univ. Liege, Sart
 SOURCE: Tilman/Liege, Belg. Tetrahedron Lett. (1972), (15), 1465-6
 CODEN: TELEAY
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Pd-catalyzed cyclopropanation of styrene with diazo compds. was almost quant. under mild conditions. Thus, PhCH:CH2 reacted with N2CHCO2Et at 25.degree. in the presence of Pd(OAc)2 to give 96% Et cis- and trans-2-phenylcyclopropanecarboxylate; addn. of 3 moles (PhO)3P per mole Pd(OAc)2 decreased the cis-trans ratio from 2.0 to 1.0, suggesting a coordination mechanism. N2CH2 reacted similarly with styrene.
 IT 5685-38-1P 36122-28-8P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 5685-38-1 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



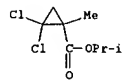
RN 36122-28-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-methyl-2-phenyl-, ethyl ester (7CI, 9CI)
 (CA INDEX NAME)



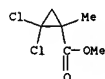
L7 ANSWER 136 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 (CA INDEX NAME)



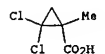
RN 35749-14-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dichloro-1-methyl-, 1-methylethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 136 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1972:153179 CAPLUS
 DOCUMENT NUMBER: 76:153179
 TITLE: Catalytic generation of trichloromethyl anion and dichlorocarbene in aqueous medium
 AUTHOR(S): Makosza, M.; Gajos, I.
 CORPORATE SOURCE: Inst. Org. Chem. Technol., Tech. Univ., Warsaw, Pol.
 SOURCE: Bull. Acad. Pol. Sci., Ser. Sci. Chim. (1972), 20(1), 33-7
 CODEN: BAPCAQ
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB The reaction of CHCl3 with olefins contg. an electron-accepting group (nitrile, ester, or PhSO2CH:CH2) in 50% NaOH contg. a catalytic amt. PhCH2Et3N+Cl- proceeded via Cl3C- and Cl2C: to give trichloromethyl and dichlorocyclopropyl compds.; the type of product was dependent on the electron-accepting group and on an .alpha.-Me group. Thus, CH2:CHCN gave 40% Cl3CCH2-CH2CN; CH2:CHMeCN gave 6% Cl3CCH2CH2CN and 14% I (R = CN); and CH2:CHMeCO2Bu gave 52% I (R = CO2Bu).
 IT 1447-13-8P 1447-14-9P 35749-13-4P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 1447-13-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dichloro-1-methyl-, methyl ester (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 1447-14-9 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dichloro-1-methyl-, butyl ester (6CI, 7CI, 8CI, 9CI)
 (CA INDEX NAME)

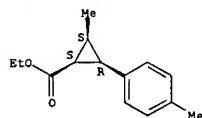


RN 35749-13-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dichloro-1-methyl-, butyl ester (9CI)

L7 ANSWER 137 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1968:104581 CAPLUS
 DOCUMENT NUMBER: 68:104581
 TITLE: Reaction of aliphatic diaxoc compounds with unsaturated compounds. XXVI. Synthesis of ethyl esters of 1-methyl-2-(p-tolyl)-1-cyclopropene-3-carboxylic and cis,cis-and trans,trans-1-methyl-2-p-tolylcyclopropane-3-carboxylic acids
 AUTHOR(S): Komendantov, M. I.; Suvorova, G. N.; D'yakov, I. A.
 CORPORATE SOURCE: Leningrad. Gos. Univ., Leningrad, USSR
 SOURCE: J. Org. Chem. (1968), 4(3), 371-6
 CODEN: JOCEAH
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 GI For diagram(s), see printed CA Issue.
 AB Addn. of carbene:CHCO2Et to the triple bond of p-MeC6H4C.tplbond.CMe (I) gave Et 1-methyl-2-(p-tolyl)cycloprop-1-ene-3-carboxylate (II) (R = Et), which on sapon. gave acid II (R = H). The carbene:CHCO2Et was generated by decompn. of N2CHCO2Et. Thus, to a hot mixt. of 41 g. I and 0.1 g. Cu bronze powder 18 g. N2CHCO2Et was added under N at 120.degree.. The mixt. was filtered, I was removed by distn. at 3 mm. Hg. The residue was distd. to give crude II (R = Et), which was sapond. with KOH/aq. MeOH soln. to give 8.5% II (R = H) m. 126-7.degree.. Esterification of II (R = H) with EtOH in the presence of concd. H2SO4 gave 60% II (R = Et), b0.3 89-90.degree., d20 1.0633, n20D 1.53261, n20D 1.53836, n20F 1.55381. Redn. of II (R = Et) over Pd catalyst gave 94.3% Et cis,cis-1-methyl-2-(p-tolyl)cyclopropane-3-carboxylate (III) (R = Et), b0.3 82-3.degree., d20 1.0342, n20C 1.50948, n20D 1.51353, n20F 1.52390. Synthesis of III (R = Et) (cis-trans mixt.) was also carried out, analogously to the prepn. of II (R = Et), by treating cis-p-MeC6H4CH:C-Me (IV) with N2CHCO2Et. Previously unknown IV, b13 71.5-3.degree., d20 0.9001, n20D 1.5355, was obtained by selective hydrogenation of I on Lindlar (1952) catalyst. Hydrolysis of III (R = Et) gave III (R = H), m. 129-30.degree. (50% EtOH). Isomerization of III (R = H) by boiling with p-MeC6H4SO2Cl and sapon. of the resulting anhydride gave 52% trans,trans-III (R = H), m. 90-1.degree. (aq. EtOH), which was converted to the trans,trans-III (R = Et), b0.3 85.degree., d20 1.0146, n20D 1.5112.
 IT 18397-23-4P 18397-24-5P 18397-25-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)

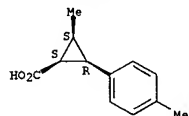
L7 ANSWER 137 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 (prepn. of)
 RN 18397-23-4 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-methyl-3-p-tolyl-, ethyl ester,
 cis,cis-
 (8CI) (CA INDEX NAME)

Relative stereochemistry.



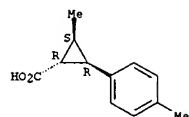
RN 18397-24-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-methyl-3-p-tolyl-, cis,cis- (8CI) (CA INDEX NAME)

Relative stereochemistry.



RN 18397-25-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-methyl-3-p-tolyl-, trans,trans- (8CI)
 (CA INDEX NAME)

Relative stereochemistry.

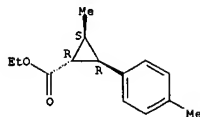


RN 18397-26-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-methyl-3-p-tolyl-, ethyl ester,
 trans,trans- (8CI) (CA INDEX NAME)

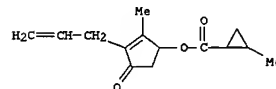
Relative stereochemistry.

L7 ANSWER 138 OF 139 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1968:39156 CAPLUS
 DOCUMENT NUMBER: 68:39156
 TITLE: Chrysanthemic acid. XVIII. New biologically active
 acid component related to chrysanthemic acid
 AUTHOR(S): Matsui, Masanao; Kitahara, Takeshi
 CORPORATE SOURCE: Univ. Tokyo, Tokyo, Japan
 SOURCE: Agric. Biol. Chem. (1967), 31(10), 1143-50
 CODEN: ABCHA6
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB The rethronyl esters of a series of cyclopropanecarboxylic acids were
 prepd. and tested for toxicity toward the housefly and mosquito.
 Thus,
 the following I (R3 = H) were prepd. (R, R1, R2, b.p./mm., and
 nD/temp.
 given): H, H, H, 85.degree. /9, 1.4379/21.degree.; H, Me, H,
 95-100.degree. /8, 1.4378/21.degree.; H, H, Me, 100-5.degree. /15
 (anilide
 m. 106.degree.), 1.4400/16.degree. (rethronyl ester n16D 1.5140);
 Et, H,
 Me, (II) 95-100.degree. /50, 1.4430/17.degree.; H, Me, Me,
 72-5.degree. /2
 (anilide m. 176.degree.), -, and Et, Me, Me (III) 75-80.degree. /11,
 -.
 II and III were obtained via .beta.-methyl-.alpha.-valerolactone, b6
 80-3.degree., n25D 1.4330, and .beta.-.alpha.-dimethyl-.alpha.-
 valerolactone, b11 98.degree., resp. I (R = H, R1 = R2 = R3 = Me)
 (IV),
 m. 121.degree. (rethronyl ester, n17D 1.5091), was prepd. by
 treatment of
 Me2C:OMe2 with N2CHCO2Et in the presence of CuSO4 catalyst, and
 subsequent alk. hydrolysis of the Et ester. Phys. consts. for
 similarly
 prepd. I (R1 = Me) are given in the table. V (b10 120-25.degree.,
 anilide
 m. 117-18.degree., n16D 1.4565; rethronyl ester n16D 1.5000) was
 prepd.
 from IV by the Arndt-Eistert reaction. [TABLE OMITTED] Alkylation
 of
 Me2C:CHCO2Et with iso-PrBr and NaNH2, and subsequent treatment with
 NaOEt,
 and then sapon. gave Me2C:C(Pr-iso)CO2H, b11 100.degree.; anilide m.
 111.degree., n15D 1.4360; rethronyl ester, n22D 1.4931. I (R = H,
 R1 = R2
 = Me, R3 = CO2Me) (VI) (b0.06 120.degree., n13D 1.4634; rethronyl
 ester
 n14D 1.4940) was prepd. by redn. of Et .alpha.-methylsenecioate with
 LiAlH4; subsequent acetylation gave trimethylallyl acetate (VII), b45
 88-92.degree., n14D 1.4365. N2CHCO2Et was added to VII to give I (R
 = Et,
 R1 = R2 = Me, R3 = CH2OAc), b10 115-22.degree., n14D 1.4470, which
 was
 hydrolyzed with an aq. alk. soln. and, without isolation, oxidized
 with

L7 ANSWER 137 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

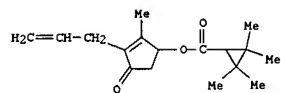


L7 ANSWER 138 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
 KMnO4 to I (R = H, R1 = R2 = Me, R3 = CO2H), m. 156.degree..
 Esterification with CH2N2 gave I (R = R1 = R2 = Me, R3 = CO2Me), b10
 100-2.degree., n15D 1.4500. Subsequent half-hydrolysis with KOH-MeOH
 yielded I (R = H, R1 = R2 = Me, R3 = CO2Me), b0.06 120.degree., n13D
 1.4634; rethronyl ester n14D 1.4940. VIII (Feist's acid, m.
 199-200.degree.; rethronyl ester, n14D 1.5120) was prepd. by the
 method of
 Goss, et al. (CA 17: 1627). The rethronyl esters were prepd. by
 converting the acids (except VIII) to the corresponding acyl
 chlorides,
 followed by esterification with allethrolone (IX) in the presence of
 excess C5H5N. VIII was treated with Ac2O to give the anhydride, then
 mixed with IX to give a half-ester which was esterified with CH2N2.
 The
 rethronyl ester of IV had the greatest toxicity. The correlation
 between
 chem. structure and biol. reactivity is discussed.
 IT
 15589-30-7P 15589-31-8P 15589-33-0P
 15589-34-1P 15589-35-2P 15591-18-1P
 15641-58-4P 17214-86-7P 17214-87-8P
 17219-23-7P 17219-24-8P 17219-29-3P
 17219-30-6P 17219-32-8P 17219-33-9P
 17219-34-0P 17219-35-1P 17219-37-3P
 17219-38-4P 17219-39-5P 17219-40-8P
 17219-41-9P 17219-42-0P 17219-44-2P
 17219-45-3P 17219-46-4P 18611-84-2P
 18611-90-0P 18611-91-1P 18718-20-2P
 18718-21-3P 28518-39-0P 28758-81-8P
 RL: SPN (Synthetic preparation); PREF (Preparation)
 (prepn. of)
 RN 15589-30-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-methyl-,
 2-methyl-4-oxo-3-(2-propenyl)-2-
 cyclopenten-1-yl ester (9CI) (CA INDEX NAME)

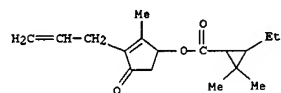


RN 15589-31-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl-,
 2-methyl-4-oxo-3-(2-
 propenyl)-2-cyclopenten-1-yl ester (9CI) (CA INDEX NAME)

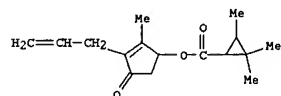
L7 ANSWER 138 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



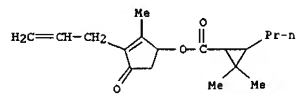
RN 15589-33-0 CAPLUS
CN Cyclopropanecarboxylic acid, 3-ethyl-2,2-dimethyl-,
2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl ester (9CI) (CA INDEX NAME)



RN 15589-34-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3-trimethyl-, 2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl ester (9CI) (CA INDEX NAME)

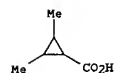


RN 15589-35-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-propyl-,
2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl ester (9CI) (CA INDEX NAME)

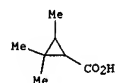


RN 15591-18-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(1-methylethyl)-,

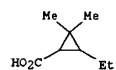
L7 ANSWER 138 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
RN 17219-23-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2,3-dimethyl- (8CI) (CA INDEX NAME)



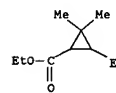
RN 17219-24-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3-trimethyl- (8CI, 9CI) (CA INDEX NAME)



RN 17219-29-3 CAPLUS
CN Cyclopropanecarboxylic acid, 3-ethyl-2,2-dimethyl- (8CI) (CA INDEX NAME)

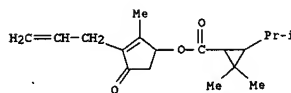


RN 17219-30-6 CAPLUS
CN Cyclopropanecarboxylic acid, 3-ethyl-2,2-dimethyl-, ethyl ester (8CI, 9CI)
(CA INDEX NAME)

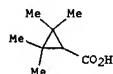


RN 17219-32-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-propyl- (8CI) (CA INDEX NAME)

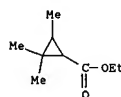
L7 ANSWER 138 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl ester (9CI) (CA INDEX NAME)



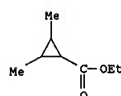
RN 15641-58-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



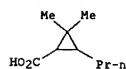
RN 17214-86-7 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3-trimethyl-, ethyl ester (8CI, 9CI)
(CA INDEX NAME)



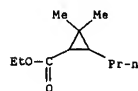
RN 17214-87-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2,3-dimethyl-, ethyl ester (7CI, 8CI, 9CI)
(CA INDEX NAME)



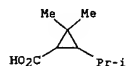
L7 ANSWER 138 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



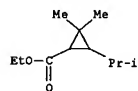
RN 17219-33-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-propyl-, ethyl ester (8CI)
(CA INDEX NAME)



RN 17219-34-0 CAPLUS
CN Cyclopropanecarboxylic acid, 3-isopropyl-2,2-dimethyl- (8CI) (CA INDEX NAME)

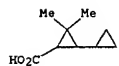


RN 17219-35-1 CAPLUS
CN Cyclopropanecarboxylic acid, 3-isopropyl-2,2-dimethyl-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

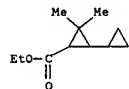


RN 17219-37-3 CAPLUS
CN [1,1'-Bicyclopropyl]-2-carboxylic acid, 3,3-dimethyl- (9CI) (CA INDEX NAME)

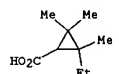
L7 ANSWER 138 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



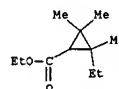
RN 17219-38-4 CAPLUS
CN [Bicyclopropyl]-2-carboxylic acid, 3,3-dimethyl-, ethyl ester (8CI)
(CA INDEX NAME)



RN 17219-39-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2-ethyl-2,3,3-trimethyl- (8CI, 9CI) (CA INDEX NAME)

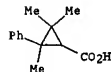


RN 17219-40-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2-ethyl-2,3,3-trimethyl-, ethyl ester (8CI)
(CA INDEX NAME)

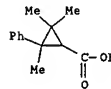


RN 17219-41-9 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3-trimethyl-3-phenyl- (8CI, 9CI)
(CA INDEX NAME)

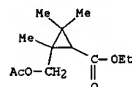
L7 ANSWER 138 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



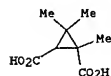
RN 17219-42-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3-trimethyl-3-phenyl-, ethyl ester (8CI)
(CA INDEX NAME)



RN 17219-44-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2-[(acetyloxy)methyl]-2,3,3-trimethyl-, ethyl ester (9CI) (CA INDEX NAME)

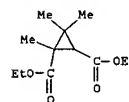


RN 17219-45-3 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1,3,3-trimethyl- (8CI, 9CI) (CA INDEX NAME)

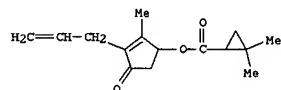


RN 17219-46-4 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1,3,3-trimethyl-, diethyl ester (8CI)
(CA INDEX NAME)

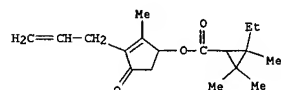
L7 ANSWER 138 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



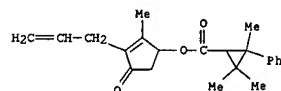
RN 18611-84-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-, 2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl ester (9CI) (CA INDEX NAME)



RN 18611-90-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-ethyl-2,3,3-trimethyl-, 2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl ester (9CI) (CA INDEX NAME)

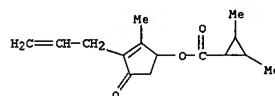


RN 18611-91-1 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2,3-trimethyl-3-phenyl-, 2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl ester (9CI) (CA INDEX NAME)

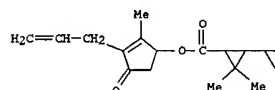


L7 ANSWER 138 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)

RN 18718-20-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2,3-dimethyl-, ester with 2-allyl-4-hydroxy-3-methyl-2-cyclopenten-1-one (8CI) (CA INDEX NAME)



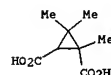
RN 18718-21-3 CAPLUS
CN [Bicyclopropyl]-2-carboxylic acid, 3,3-dimethyl-, ester with 2-allyl-4-hydroxy-3-methyl-2-cyclopenten-1-one (8CI) (CA INDEX NAME)



RN 28518-39-0 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1,3,3-trimethyl-, monomethyl ester (8CI) (CA INDEX NAME)

CM 1

CRN 17219-45-3
CMF C8 H12 O4



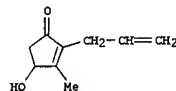
CM 2

CRN 67-56-1
CMF C H4 O

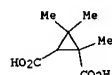
H₃C-OH

L7 ANSWER 138 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
RN 28758-81-8 CAPLUS
CN 1,2-Cyclopropanedicarboxylic acid, 1,3,3-trimethyl-, methyl ester,
ester
NAME) with 2-allyl-4-hydroxy-3-methyl-2-cyclopenten-1-one (8CI) (CA INDEX

CM 1
CRN 29605-88-7
CMF C9 H12 O2



CM 2
CRN 17219-45-3
CMF C8 H12 O4



CM 3
CRN 67-56-1
CMF C4 H4 O

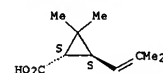
H3C-OH

L7 ANSWER 139 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
30 min. to 16.8 g. PC15 in 200 ml. anhyd. ether at -3.degree. (very exothermic reaction). The mixt. was stirred overnight at room temp., filtered, and the solid added to ice and extd. with CHCl3 to give 3% XV, m. 154.degree. (benzene-ligroine). The ether filtrate was washed with cold NaHCO3 soln., water, dried, and concd. to give 77% of a mixt. (b0.5 58-9.degree., n20D 1.4645) of XVI and XVII in approx. 4:1 ratio, and 5% XVIII, b0.7 61.degree., n24D 1.4615. XVIII decompd. to XVI and XVII when subjected to gas chromatog. Similarly, XIV was treated with PC15 in the presence of pyridine (1.6 ml. pyridine/1.6 g. PC15), and the ether residue chromatographed on alumina to give 73% of a 3:2 mixt. of XVI and XVII (petroleum ether eluate) and 11% XIX, m. 111.degree. (C6H6-ligroine). Treatment of XIV with tosyl chloride in pyridine at 0.degree., then 1 hr. at room temp. and 1 hr. at 100.degree. gave 48% XVI-XVII and 50% XIX. XVI and XVII have the cis configuration. Redn. of XVI and XVII with Adams catalyst gave cis-dihydrochrysanthenonitrile. A mixt. of XVI and XVII (310 mg.), 5 mg. p-toluenesulfonic acid (XX), and 5 ml. xylene was refluxed 2 hrs. to give a 9:1 mixt. of XVI and XVII. Sapon. of XVI-XVII (3:2) (24 hrs. reflux with KOH in ethylene glycol) gave 76% of a mixt. (b0.4 97-8.degree.) of I and II. Esterification of this mixt. with CH2N2 gave a mixt. contg. 9% iso-cis-, 45% iso-trans-, 8% cis-, and 38% trans-methyl chrysanthemate. Redn. of this mixt. gave cis- and trans-methyl dihydrochrysanthemate. The I-II mixt. (0.6 g.) refluxed 1.5 hrs. in 15 ml. xylene with 5 mg. XX gave 0.54 g. pure II. To 3,3,6-trimethyl-6-hydroxyheptanenitrile (10 g.) in 4 ml. pyridine was added at 0.degree. 7.4 g. methanesulfonyl chloride, the mixt. cooled overnight, added to ice, and extd. with ether to give the methanesulfonate (XXI). XXI (1.25 g. crude) in 3 ml. dimethylformamide was dropwise to 0.24 g. 50% NaH in mineral oil and 5 ml. dimethylformamide, the mixt. cooled, added to ice, and extd. with ether to give dihydrochrysanthenonitrile (reaction temp., time (hrs.), % yield, and cis/trans ratio given); 20.degree., 5, 86, 60/40; 65.degree., 5, 86, 53/47; 100.degree., 2, 75, 46/54; 125.degree., 1/4, 70, 33% cis, 37% trans, 30% unidentified. Redn. of 95 mg. of I-II mixt. with Adams catalyst gave XXIIa (X = H, R = H), p-phenylphenacyl ester m. 100-1.degree. (MeOH). A soln. of 5 g. II in 50 ml. anhyd. ether satd. at 0.degree. with HCl and cooled overnight gave 95% XXIIa (X = Cl, R = H)

L7 ANSWER 139 OF 139 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1967:85867 CAPLUS
DOCUMENT NUMBER: 66:85867
TITLE: Synthesis and fragmentation of substituted bicyclo-[3.1.0]-2-hexanones. II. (+-)-iso-trans-chrysanthemic and (+-)-trans-chrysanthemic acids
AUTHOR(S): Julia, Sylvestre; Julia, Marc; Linstrumelle, Gerard
CORPORATE SOURCE: Ecole Natl. Super. Chim., Paris, Fr.
SOURCE: Bull. Soc. Chim. Fr. (1966), (11), 3499-507
CODEN: BSCFAS
DOCUMENT TYPE: Journal
LANGUAGE: French
GI For diagram(s), see printed CA Issue.
AB of. preceding abstr. A new acid, (+-)-iso-trans-chrysanthemic acid (I) and (+-)-trans-chrysanthemic acid (II) were prepd. Dimethyl-vinyl carbinol (86 g.) was added to 47 g. 53% NaH in mineral oil and 1.2 l. benzene, the mixt. refluxed 5 hrs., cooled to -15.degree., and 104 ml. isobutyl chloride in 50 ml. benzene added at 0 to 4.degree.. The mixt. was left overnight at room temp., added to water, and extd. with ether to give 108 g. III, b10 39.degree., n22.5D 1.4113. III (78 g.) was added dropwise to 24 g. 53% NaH in mineral oil and 160 ml. toluene at 110.degree., the mixt. kept 2 hrs. at 110.degree., cooled, 10 ml. MeOH added, and the mixt. added to ice, washed with ether, and acidified with 2N HCl to give 64 g. IV, b0.6 91.degree., n23.5D 1.4487, amide m. 73.degree. (ether-petroleum ether). IV was also prepd. from 2,2,5-trimethyl-4-hexen-1-al (V) and Ag2O (85% yield) and by sapon. of 2,2,5-trimethyl-4-hexenenitrile (VI) in ethylene glycol (85% yield). V was prepd. by the method of Stork and Dowd (CA 59, 7383a). Addn. of isobutyronitrile (VII) to a mixt. of PhLi and Et2NH in ether and treatment of this mixt. with isoprene hydrobromide hydrate (VIII) gave 62% VI, b22 86.degree., n18D 1.4351. VI was also prepd. in 96% yield from EtMgBr, Et2NH, VII, and VIII in 87% yield from VII, isoprene hydrochlor, and NaNH2 in benzene. A soln. of 12 g. Me iodide in 20 ml. ether was added slowly to 1.1 g. Li in 20 ml. ether. To this was added 2.6 g. IV in 10 ml. ether, the mixt. stirred overnight, ice-water added, and extd. with ether to give 2.32 g. IXa (X = Me) (X), b18 84.degree., n20D 1.44-66, also prepd. in 76% yield by treatment of VI with EtMgI in toluene. IV and (COCl)2 in ligroine gave IXa (X = Cl) (XI). XI and CH2N2 gave IXa (X = CHN2) (XII). XII in cyclohexane treated with Cu powder at reflux gave 70% XIII, b12 75.degree., n22.5D 1.4595, oxime (XIV) m. 90-1.degree. (ether-petroleum ether). XIV (8.61 g.) was added in small portions over

L7 ANSWER 139 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
HCl (XXIII). A mixt. of ethyl and tert-amyl chrysanthemates treated with gave XXIII ethyl ester (XXIV) and XXIII in an amt. corresponding to the amyl ester. Similarly, trans-ethyl chrysanthemate and HCl in ether gave 90% XXIV, b0.8 86.degree., n21D 1.4558, also prepd. from XXIII and diazoethane. A mixt. of 74 ml. 1.5N Na tert-amylate in benzene and 19.6 g. ethyl chrysanthemate (XXV) (60% trans-40% cis) was refluxed 4 hrs., cooled, added to ice and extd. with ether to give 90% trans-esters contg. 3% cis-XXV, however the trans-esters contained 33% trans-XXV and 67% tert-amyl chrysanthemate (XXVI). The trans esters refluxed with alc. KOH gave chrysanthemic acid and pure XXVI, b0.8 85-8.degree., n24D 1.4576. XXV (30 g.) refluxed 72 hrs. in a soln. of 20.7 g. Na in 300 ml. alc. 25.5 g. trans-XXV, b0.6 70.degree., n20D 1.4556 (contg. 8% cis-ester). XXIV treated with bases, e.g. tert-BuOK, NaH in dimethylformamide, PhNEt2, or NaOEt, gave 70% XXV and 30% of the iso-isomer I. XXIV heated in C6H6Cl2 at 180.degree. gave the same results. XXIII heated with K in Et3COH at 20.degree., then heated 2 hrs. at 90.degree. (Brown, et al., CA 50, 14749e) gave 94% of a mixt. of 85% I and 15% II. I, m. 42-4.degree., amide m. 117-18.degree. (benzene), was sepd. from II by 2 recrystns. from pentane. Similarly, XXIV (4 hrs. at 85.degree.) gave 90% of a mixt. contg. 25% II and 75% I. IT 705-16-8P 7377-84-6P 13899-97-3P 13902-29-9P 13902-34-6P 13902-35-7P 14280-93-4P
RL: SEN (Synthetic preparation); PREP (Preparation) (prepn. of)
RN 705-16-8 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (1R,3R)-rel- (9CI) (CA INDEX NAME)

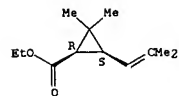
Relative stereochemistry.



RN 7377-84-6 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl ester, (1R,3S)-rel- (9CI) (CA INDEX NAME)

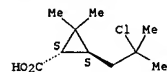
Relative stereochemistry.

L7 ANSWER 139 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)



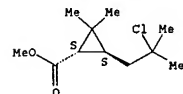
RN 13899-97-3 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-2-methylpropyl)-2,2-dimethyl-,
trans- (8CI) (CA INDEX NAME)

Relative stereochemistry.



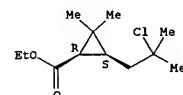
RN 13902-29-9 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-2-methylpropyl)-2,2-dimethyl-,
methyl ester, trans- (8CI) (CA INDEX NAME)

Relative stereochemistry.



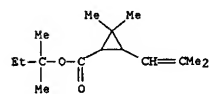
RN 13902-34-6 CAPLUS
CN Cyclopropanecarboxylic acid,
3-(2-chloro-2-methylpropyl)-2,2-dimethyl-,
ethyl ester, cis- (8CI, 9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 13902-35-7 CAPLUS

L7 ANSWER 139 OF 139 CAPLUS COPYRIGHT 2002 ACS (Continued)
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-,
tert-pentyl ester (8CI) (CA INDEX NAME)



RN 14280-93-4 CAPLUS

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---Logging off of STN---

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Executing the logoff script...

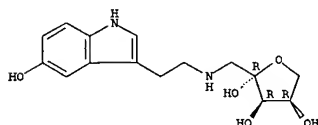
=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	613.93	894.70

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-86.11	-86.11

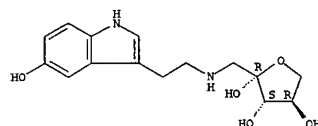
STN INTERNATIONAL LOGOFF AT 08:56:19 ON 18 JUL 2002

L8 ANSWER 44 OF 46 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1980:42269 CAPLUS
 DOCUMENT NUMBER: 92:42269
 TITLE: Correlation between steric structure and
 chiroptical properties of 1-desoxy-2-keto sugar derivatives
 of serotonin
 AUTHOR(S): Meester, L.; Amaya, A. Amit; Berenger, G.;
 Meester, M.
 CORPORATE SOURCE: Inst. Chim. Subst. Nat., CNRS, Gif-sur-Yvette,
 91190,
 SOURCE: Fr.
 Journal of Carbohydrates, Nucleosides,
 Nucleotides (1979), 6(3), 247-54
 CODEN: JCNNAF; ISSN: 0094-0585
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB 13C NMR and CD of the title sugar derivs. show the hexose derivs. to
 be present in .beta.-pyranose structure, while the pentose and
 methylpentose derivs. are in .alpha.- or .beta.-furanose form. A distinct optical
 rule has been established for both types of serotonin sugar derivs. The
 tetrose deriv. follows the general optical rule, established for C-1
 and C-2 substituted open chain sugar derivs.
 IT 72328-40-6 72328-41-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (C-13 NMR and CD of, steric structure in relation to)
 RN 72328-40-6 CAPLUS
 CN .beta.-D-erythro-2-Pentulofuranose,
 1-deoxy-1-[[2-(5-hydroxy-1H-indol-3-yl)ethyl]amino]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

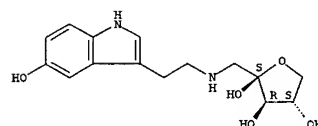


RN 72328-41-7 CAPLUS
 CN .beta.-D-Tagatofuranose, 1,6-dideoxy-1-[[2-(5-hydroxy-1H-indol-3-yl)ethyl]amino]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

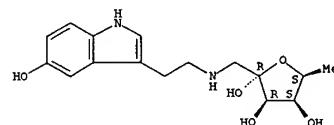
L8 ANSWER 44 OF 46 CAPLUS COPYRIGHT 2003 ACS (Continued)
 Absolute stereochemistry.



RN 72328-48-4 CAPLUS
 CN .beta.-L-threo-2-Pentulofuranose,
 1-deoxy-1-[[2-(5-hydroxy-1H-indol-3-yl)ethyl]amino]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

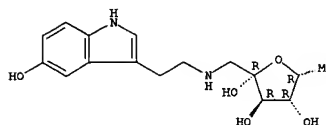


RN 72328-51-9 CAPLUS
 CN .alpha.-L-Tagatofuranose, 1,6-dideoxy-1-[[2-(5-hydroxy-1H-indol-3-yl)ethyl]amino]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

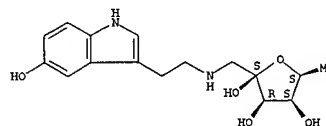


RN 72328-52-0 CAPLUS
 CN .alpha.-L-erythro-2-Pentulofuranose,
 1-deoxy-1-[[2-(5-hydroxy-1H-indol-3-yl)ethyl]amino]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

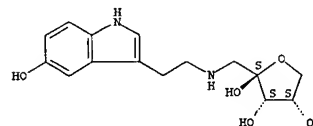
L8 ANSWER 44 OF 46 CAPLUS COPYRIGHT 2003 ACS (Continued)



IT 72328-45-1 72328-46-2 72328-47-3
 72328-48-4 72328-51-9 72328-52-0
 72328-53-1 72328-54-2
 RL: FRP (Properties)
 (Cotton effect of)
 RN 72328-45-1 CAPLUS
 CN .beta.-L-Tagatofuranose, 1,6-dideoxy-1-[[2-(5-hydroxy-1H-indol-3-yl)ethyl]amino]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

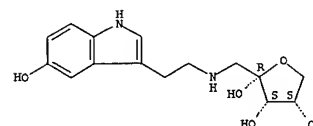


RN 72328-46-2 CAPLUS
 CN .beta.-L-erythro-2-Pentulofuranose,
 1-deoxy-1-[[2-(5-hydroxy-1H-indol-3-yl)ethyl]amino]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

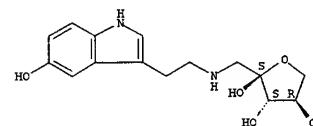


RN 72328-47-3 CAPLUS
 CN .beta.-D-threo-2-Pentulofuranose, 1-deoxy-1-[[2-(5-hydroxy-1H-indol-3-yl)ethyl]amino]- (9CI) (CA INDEX NAME)

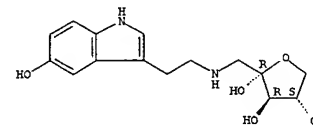
L8 ANSWER 44 OF 46 CAPLUS COPYRIGHT 2003 ACS (Continued)



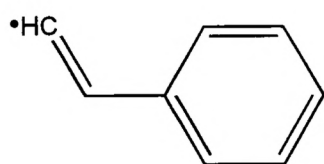
RN 72328-53-1 CAPLUS
 CN .alpha.-D-threo-2-Pentulofuranose,
 1-deoxy-1-[[2-(5-hydroxy-1H-indol-3-yl)ethyl]amino]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



RN 72328-54-2 CAPLUS
 CN .alpha.-L-threo-2-Pentulofuranose,
 1-deoxy-1-[[2-(5-hydroxy-1H-indol-3-yl)ethyl]amino]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



IT 72328-49-5 72328-50-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (NMR and CD of, steric structure in relation to)
 RN 72328-49-5 CAPLUS
 CN .alpha.-D-erythro-2-Pentulofuranose,
 1-deoxy-1-[[2-(5-hydroxy-1H-indol-3-yl)ethyl]amino]- (9CI) (CA INDEX NAME)



styryl